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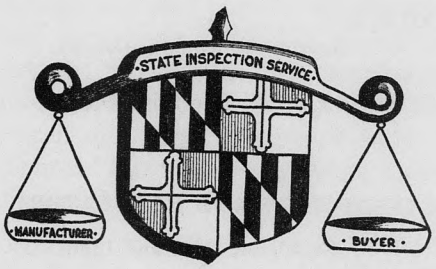
Commercial Fertilizers, Commercial Feeds

AND

Agricultural Liming Materials



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FEEDS, FERTILIZERS AND LIMES

The duties of the Inspection Service as set forth in the State Feed, Fertilizer and Lime Laws, consist in the registration of brands to be offered for sale, the inspection of methods of labelling and selling, the collection and analysis of official samples and the publication of results obtained. This publication consists of a report of the work performed from July 1, to November 15, and contains a record of the analysis of official samples obtained during that period.

Since January 1, official representatives of this Department have secured from dealers and selling agents 1,800 samples of commercial feeds, 600 of which appear in this bulletin. All of these products were subjected to a complete chemical and microscopical examination and the results compared with guarantees of the manufacturers.

There were 415 official samples of commercial fertilizer secured from dealers' warehouses, on trucks or in transit during the Fall season. These samples were classified as follows:

Two hundred and sixty-three complete fertilizers containing nitrogen, superphosphate and potash; 48 superphosphate and potash fertilizers supplying available phosphoric acid and water-soluble potash; 81 samples of superphosphate furnishing available phosphoric acid; 9 ground bone fertilizers warranted for nitrogen and total phosphoric acid. In the last named group, termed "Miscellaneous," were placed 14 samples of nitrate of soda, sulphate of ammonia and muriate of potash.

Twenty-two samples of lime and liming materials were collected during the Fall season. These were analyzed in order to establish the correctness of guarantees printed upon the sacks or attached cards. Separate determinations were made for calcium oxide, magnesium oxide and acid insoluble material.

In addition to the analysis of official samples included in this report, 420 samples drawn and forwarded to this Department by purchasers were examined and reports transmitted to parties particularly interested. Since a representative sample is as essential as an accurate analysis in judging the quality of a product, this Organization can only vouch for the accuracy of the results obtained on the material submitted.

* COD LIVER OIL AND ALLIED MATERIALS

The office of the Attorney General of Maryland recently ruled that materials sold for their vitamin content come within the jurisdiction of the Feed Inspection Law of this State. These materials are fed to livestock to furnish vitamins which may be deficient in farm rations. During the past year the work of testing such materials for their vitamin D content has been initiated. So far no chemical tests have been advanced which would accurately give the vitamin D content of cod liver oils or other vitamin D preparations. This makes it necessary to rely on biological methods for a vitamin D assay of such materials. The method in general consists of feeding groups of baby chicks with a ration which will produce rickets within five weeks. A basal ration is supplemented with small but definite amounts of the vitamin D carriers under test. After five weeks, the birds are killed and the ash content of the upper leg bone is determined. A comparison of the average ash content of the chicks on the various rations is then made.

Chicks receiving adequate amounts of vitamin D show an average ash percentage from 10 to 14 per cent higher than those receiving the basal or rachitic ration. It is thus possible to compare the potency of various products by determining the minimum percentage of each which must be added to the basal ration to increase the ash content 10 per cent or more above the ash values of rachitic bones.

The results of this series of tests are reported on page 52 of this publication. In considering the results given, it must be borne in mind that in biological assay work there is always a considerable variation in the reactions of the different birds and the same set of conditions and variations of 2 to 3 per cent from the mean value for maximum calcification (about 47 per cent in our work) are not of great significance.

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* The Feed Inspection Service wishes to publicly acknowledge the cooperation given by R. H. Waite and G. D. Quigley of the Poultry Department in the work on vitamin D materials.

FERTILIZER ANALYSES

A detailed report of the results obtained in the inspection and analysis of fertilizers from July 1, 1932, to November 1, 1932, is contained in pages 6 to 20, inclusive.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Allied Mills, Inc., Baltimore, Md.												
Fertilizer 2-8-10	Street	2.00	**2.01**	1.73	**1.68**	.27	**.33**	**.60**	8.00	**8.80**	10.00	**10.30**
Fertilizer 2-8-5	Street	2.00	**1.87**	1.73	**1.71**	.27	**.16**	**.80**	8.00	**8.70**	5.00	**5.24**
American Agricultural Chemical Co., New	**York, N. Y.**											
A. A. 20% Superphosphate	Baltimore	....	....	....	....	....	....	**.90**	20.00	**20.90**	....	....
A. A. 16% Superphosphate	Waldorf	....	....	....	....	....	....	**1.30**	16.00	**16.20**	....	....
A. A. 16% Superphosphate	Salisbury	....	....	....	....	....	....	**1.10**	16.00	**17.00**	....	....
A. A. 16% Superphosphate	Baltimore	....	....	....	....	....	....	**1.20**	16.00	**16.50**	....	....
A. A. 16% Superphosphate	Baltimore	....	....	....	....	....	....	**1.50**	16.00	**16.20**	....	....
A. A. 16% Superphosphate	Baltimore	....	....	....	....	....	....	**1.30**	16.00	**16.60**	....	....
A. A. Basic Lime Phosphate	Baltimore	....	....	....	....	....	....	**1.80**	13.00	**13.50**	....	....
A. A. Basic Lime Phosphate	Baltimore	....	....	....	....	....	....	**1.70**	13.00	**13.10**	....	....
A. A. Basic Lime Phosphate	Baltimore	....	....	....	....	....	....	**1.50**	13.00	**13.70**	....	....
A. A. Basic Lime Phosphate	Baltimore	....	....	....	....	....	....	**1.10**	13.00	**14.70**	....	....
A. A. Acme Fertilizer	Salisbury	1.00	**1.07**	.75	**.90**	.25	**.17**	**.70**	9.00	**9.90**	4.00	**4.28**
A. A. Acme Fertilizer	Baltimore	1.00	**1.04**	.75	**.80**	.25	**.24**	**.70**	9.00	**9.30**	4.00	**4.20**
A. A. Acme Fertilizer	Baltimore	1.00	**1.07**	.75	**.84**	.25	**.23**	**.90**	9.00	**9.30**	4.00	**4.08**
A. A. Acme Fertilizer	Baltimore	1.00	**1.04**	.75	**.81**	.25	**.23**	**1.10**	9.00	**9.70**	4.00	**4.18**
Agrico for Grain	Baltimore	2.00	**2.01**	1.80	**1.68**	.20	**.33**	**1.30**	12.00	**12.30**	4.00	**4.10**
Agrico for Grain	Baltimore	2.00	**2.01**	1.80	**1.76**	.20	**.25**	**.80**	12.00	**12.90**	4.00	**4.00**
Agrico for Grain	Baltimore	2.00	**2.02**	1.80	**1.71**	.20	**.31**	**1.40**	12.00	**12.70**	4.00	**4.00**
A. A. Farmers Friend Fertilizer	Ellicott City	2.00	**2.01**	1.80	**1.71**	.20	**.30**	**1.10**	12.00	**12.40**	4.00	**4.10**
A. A. Farmers Friend Fertilizer	Baltimore	2.00	**2.04**	1.80	**1.71**	.20	**.33**	**1.60**	12.00	**12.50**	4.00	**4.10**
A. A. Farmers Friend Fertilizer	Baltimore	2.00	**2.08**	1.80	**1.74**	.20	**.34**	**1.30**	12.00	**12.70**	4.00	**4.28**
Fine Ground Bone	Up'r Marlboro	2.47	**2.53**	....	....	....	....	....	*23.00	***23.90**	....	....
A. A. Kangaroo Komplete Kompound	Ellicott City	2.00	**2.01**	1.70	**1.77**	.30	**.24**	**1.00**	9.00	**9.20**	3.00	**3.00**
A. A. Kangaroo Komplete Kompound	Baltimore	2.00	**1.92**	1.70	**1.66**	.30	**.26**	**1.00**	9.00	**9.00**	3.00	**3.10**
A. A. Kangaroo Komplete Kompound	Baltimore	2.00	**1.98**	1.70	**1.68**	.30	**.30**	**1.30**	9.00	**9.20**	3.00	**3.10**
A. A. Old Hickory Fertilizer	Up'r Marlboro	2.00	**2.01**	1.70	**1.74**	.30	**.27**	**.70**	8.00	**8.30**	10.00	**10.40**
A. A. Old Hickory Fertilizer	Salisbury	2.00	**1.92**	1.70	**1.66**	.30	**.26**	**.50**	8.00	**8.40**	10.00	**10.10**
A. A. Old Hickory Fertilizer	Baltimore	2.00	**1.87**	1.70	**1.66**	.30	**.21**	**.80**	8.00	**8.10**	10.00	**10.20**
A. A. Red Dog Fertilizer	Providence	2.00	**1.99**	1.70	**1.77**	.30	**.22**	**.40**	8.00	**8.90**	5.00	**5.10**
A. A. Red Dog Fertilizer	Waldorf	2.00	**1.95**	1.70	**1.68**	.30	**.27**	**.80**	8.00	**8.10**	5.00	**5.00**
A. A. Red Dog Fertilizer	Ellicott City	2.00	**1.98**	1.70	**1.71**	.30	**.27**	**1.10**	8.00	**8.10**	5.00	**5.10**

A. A. Old Hickory Fertilizer	Up'r Marlboro.	2.00	**2.01**	1.70	**1.74**	.30	**.27**	**.70**	8.00	**8.30**	10.00	**10.46**
A. A. Old Hickory Fertilizer	Salisbury	2.00	**1.92**	1.70	**1.66**	.30	**.26**	**.50**	8.00	**8.40**	10.00	**10.10**
A. A. Old Hickory Fertilizer	Baltimore	2.00	**1.87**	1.70	**1.66**	.30	**.21**	**.80**	8.00	**8.10**	10.00	**10.20**
A. A. Red Dog Fertilizer	Providence	2.00	**1.99**	1.70	**1.77**	.30	**.22**	**.40**	8.00	**8.90**	5.00	**5.10**
A. A. Red Dog Fertilizer	Waldorf	2.00	**1.95**	1.70	**1.68**	.30	**.27**	**.80**	8.00	**8.10**	5.00	**5.00**
A. A. Red Dog Fertilizer	Ellicott City	2.00	**1.98**	1.70	**1.71**	.30	**.27**	**1.10**	8.00	**8.10**	5.00	**5.10**
A. A. Red Dog Fertilizer	Baltimore	2.00	**2.02**	1.70	**1.81**	.30	**.21**	**1.10**	8.00	**8.60**	5.00	**5.12**
A. A. Red Dog Fertilizer	Baltimore	2.00	**1.91**	1.70	**1.66**	.30	**.24**	**1.00**	8.00	**8.40**	5.00	**5.10**
A. A. Red Dog Fertilizer	Baltimore	2.00	**1.83**	1.70	**1.66**	.30	**.17**	**1.20**	8.00	**8.00**	5.00	**5.10**
A. A. Red Dog Fertilizer	Baltimore	2.00	**2.01**	1.70	**1.68**	.30	**.33**	**1.00**	8.00	**8.40**	5.00	**5.20**
A. A. Silk Leaf Tobacco Fertilizer	Up'r Marlboro.	2.00	**2.13**	1.70	**1.83**	.30	**.30**	**.70**	8.00	**8.10**	10.00	**10.36**
A. A. Victory Mixture	Providence	....	....	....	....	....	....	**1.10**	12.00	**12.10**	5.00	**5.06**
A. A. Victory Mixture	Baltimore	....	....	....	....	....	....	**.50**	12.00	**12.90**	5.00	**5.30**
A. A. Victory Mixture	Baltimore	....	....	....	....	....	....	**1.20**	12.00	**12.10**	5.00	**5.22**
Listers 16% Superphosphate	Baltimore	....	....	....	....	....	....	**1.10**	16.00	**17.30**	....	....
Listers G. Brand Fertilizer	Baltimore	1.00	**1.05**	.75	**.83**	.25	**.22**	**1.10**	9.00	**9.50**	4.00	**4.00**
Listers Harvest Queen Fertilizer	Baltimore	2.00	**1.91**	1.70	**1.66**	.30	**.25**	**.90**	8.00	**8.60**	5.00	**5.00**
Listers Harvest Queen Fertilizer	Baltimore	2.00	**1.99**	1.70	**1.74**	.30	**.25**	**1.00**	8.00	**8.30**	5.00	**5.08**
Patapsco Apex Mixture	Georgetown	....	....	....	....	....	....	**.30**	12.00	**12.50**	5.00	**5.10**
Patapsco Big Chief Fertilizer	Georgetown	2.00	**1.99**	1.70	**1.80**	.30	**.19**	**1.20**	8.00	**8.10**	5.00	**5.00**
Patapsco Big Chief Fertilizer	Baltimore	2.00	**1.98**	1.70	**1.68**	.30	**.30**	**.90**	8.00	**8.10**	5.00	**5.34**
Patapsco Coon Brand Fertilizer	Georgetown	1.00	**1.09**	.75	**.84**	.25	**.25**	**.80**	9.00	**9.40**	4.00	**4.16**
American Soda Products Co., Moorestown, N. J.												
Grogreen Plant Tablets	Baltimore	3.00	**4.70**	1.80	**2.70**	1.20	**2.00**	**1.10**	8.00	**10.10**	3.00	**2.68**
Grogreen Fern Food	Baltimore	3.00	**4.72**	1.80	**2.58**	1.20	**2.19**	**.40**	8.00	**10.00**	3.00	**3.00**
Armour Fertilizer Works, Baltimore, Md.												
Big Crop 20% Superphosphate	Cumberland	....	....	....	....	....	....	**.20**	20.00	**19.50**	....	....
Big Crop 16% Superphosphate	Baltimore	....	....	....	....	....	....	**.60**	16.00	**17.00**	....	....
Big Crop 16% Superphosphate	Baltimore	....	....	....	....	....	....	**.50**	16.00	**16.60**	....	....
Lime Phosphate	Baltimore	....	....	....	....	....	....	**.80**	13.00	**14.10**	....	....
Big Crop Bone Mixture	Baltimore	2.00	**1.94**	1.50	**1.07**	.50	**.87**	**1.00**	9.00	**9.60**	3.00	**3.10**
Big Crop General Fertilizer	Baltimore	2.00	**1.99**	1.50	**1.33**	.50	**.65**	**.30**	9.00	**8.60**	2.00	**2.10**
Big Crop 1-9-4 Fertilizer	Salisbury	1.00	**1.08**	.65	**.42**	.35	**.66**	**.10**	9.00	**9.30**	4.00	**4.10**
Big Crop 1-9-4 Fertilizer	Baltimore	1.00	**1.10**	.65	**.66**	.35	**.44**	**.30**	9.00	**9.40**	4.00	**4.10**
Big Crop 1-9-4 Fertilizer	Baltimore	1.00	**1.10**	.65	**.70**	.35	**.40**	**.50**	9.00	**9.30**	4.00	**4.00**
Sulphate of Ammonia	Baltimore	20.50	**20.68**	....	....	....	....	....	....	....	....	....
Big Crop 3-12-6 Fertilizer	Baltimore	3.00	**3.20**	2.25	**2.37**	.75	**.83**	**.50**	12.00	**12.30**	6.00	**6.20**
Big Crop 3-8-10 Fertilizer	Salisbury	3.00	**2.84**	2.25	**1.99**	.75	**.85**	**.20**	8.00	**8.50**	10.00	**10.10**
Big Crop 2-16-8 Fertilizer	Baltimore	2.00	**2.01**	2.00	**1.74**	0.00	**.27**	**.50**	16.00	**16.60**	8.00	**8.20**
Big Crop 2-16-8 Fertilizer	Baltimore	2.00	**2.09**	2.00	**1.76**	0.00	**.33**	**.30**	16.00	**16.70**	8.00	**8.20**
Big Crop 2-12-6 Fertilizer	Baltimore	2.00	**2.08**	1.50	**1.68**	.50	**.40**	**.30**	12.00	**12.00**	6.00	**6.00**
Big Crop 2-12-4 Fertilizer	Baltimore	2.00	**1.94**	1.50	**1.38**	.50	**.56**	**.30**	12.00	**12.00**	4.00	**4.10**
Big Crop 2-12-4 Fertilizer	Baltimore	2.00	**2.01**	1.50	**1.52**	.50	**.49**	**.50**	12.00	**12.30**	4.00	**4.10**

* Total Phosphoric Acid.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Armour Fert. Works, Balto., Md. (Cont.)												
Big Crop 2-12-4 Fertilizer	Baltimore	2.00	**2.05**	1.50	**1.54**	.50	**.51**	**.50**	12.00	**12.00**	4.00	**4.20**
Big Crop 2-12-2 Fertilizer	Baltimore	2.00	**1.88**	1.50	**1.31**	.50	**.57**	**.60**	12.00	**12.60**	2.00	**2.08**
Big Crop 2-8-10 Fertilizer	Rising Sun	2.00	**2.01**	1.50	**1.45**	.50	**.56**	**.40**	8.00	**9.00**	10.00	**10.00**
Big Crop 2-8-10 Fertilizer	Salisbury	2.00	**2.12**	1.50	**1.19**	.50	**.93**	**.20**	8.00	**8.50**	10.00	**10.08**
Big Crop 2-8-10 Fertilizer	Baltimore	2.00	**2.01**	1.50	**1.38**	.50	**.63**	**.20**	8.00	**8.10**	10.00	**10.00**
Big Crop 2-8-5 Fertilizer	Elkton	2.00	**2.04**	1.50	**1.31**	.50	**.73**	**.20**	8.00	**8.70**	5.00	**5.00**
Big Crop 2-8-5 Fertilizer	Rising Sun	2.00	**1.98**	1.50	**1.26**	.50	**.72**	**.10**	8.00	**8.70**	5.00	**5.00**
Big Crop 2-8-5 Fertilizer	Salisbury	2.00	**1.99**	1.50	**1.12**	.50	**.87**	**.40**	8.00	**8.20**	5.00	**5.20**
Big Crop 2-8-5 Fertilizer	Princess Anne	2.00	**1.99**	1.50	**1.10**	.50	**.89**	**.20**	8.00	**8.30**	5.00	**5.10**
Big Crop 2-8-5 Fertilizer	Williamsport	2.00	**1.99**	1.50	**1.40**	.50	**.49**	**.20**	8.00	**8.50**	5.00	**5.00**
Big Crop 2-8-5 Fertilizer	Baltimore	2.00	**2.01**	1.50	**1.50**	.50	**.51**	**.40**	8.00	**8.10**	5.00	**5.20**
Big Crop 0-12-5 Fertilizer	Rising Sun	....	....	....	....	....	....	**.40**	12.00	**12.20**	5.00	**5.00**
Big Crop 0-12-5 Fertilizer	Princess Anne	....	....	....	....	....	....	**.10**	12.00	**12.70**	5.00	**5.00**
Big Crop 0-12-5 Fertilizer	Baltimore	....	....	....	....	....	....	**.40**	12.00	**12.10**	5.00	**5.18**
Associated Chemical Co., Baltimore, Md.												
16% Dissolved Phosphate	Baltimore	....	....	....	....	....	....	**.70**	16.00	**16.50**	....	....
0-12-5	Keymar	....	....	....	....	....	....	**.40**	12.00	**12.50**	5.00	**5.00**
Baltimore Fertilizer Co., Baltimore, Md.												
Honest 16% Superphosphate	Glyndon	....	....	....	....	....	....	**.10**	16.00	**19.40**	....	....
Honest 16% Superphosphate	Hampstead	....	....	....	....	....	....	**.30**	16.00	**16.30**	....	....
Honest 16% Superphosphate	La Plata	....	....	....	....	....	....	**.20**	16.00	**15.90**	....	....
Honest 1-9-4	Glyndon	1.00	**1.08**	.50	**.65**	.50	**.43**	**.20**	9.00	**9.80**	4.00	**4.40**
Honest 2-8-5	Glyndon	2.00	**2.13**	1.60	**1.60**	.40	**.53**	**.10**	8.00	**8.70**	5.00	**5.40**
Honest 2-8-5	Bel Air	2.00	**2.50**	1.20	**1.32**	.80	**1.18**	**.10**	8.00	**9.20**	5.00	**5.28**
Honest 2-8-5	La Plata	2.00	**2.13**	1.20	**1.36**	.80	**.77**	**.10**	8.00	**7.80**	5.00	**5.28**
Honest 2-8-5	Glyndon	2.00	**2.04**	1.20	**1.31**	.80	**.73**	**.20**	8.00	**8.60**	5.00	**5.40**
Baugh & Sons Co., Baltimore, Md.												
Baughphos, The Ideal 20% Superphosphate	Baltimore	....	....	....	....	....	....	**.10**	20.00	**20.60**	....	....
Baughphos, The Ideal 18% Superphosphate	Denton	....	....	....	....	....	....	**.20**	18.00	**19.10**	....	....
Baughphos, The Ideal 16% Superphosphate	Woodbine	....	....	....	....	....	....	**.50**	16.00	**16.70**	....	....
Baughphos, The Ideal 16% Superphosphate	Denton	....	....	....	....	....	....	**.40**	16.00	**16.00**	....	....

Baugh & Sons Co., Baltimore, Md.												
Baughphos, The Ideal 20% Superphosphate...	Baltimore.....	....	....	....	....	....	....	.10	20.00	**20.60**	....	....
Baughphos, The Ideal 18% Superphosphate...	Denton.....	....	....	....	....	....	....	.20	18.00	**19.10**	....	....
Baughphos, The Ideal 16% Superphosphate...	Woodbine.....	....	....	....	....	....	....	.50	16.00	**16.70**	....	....
Baughphos, The Ideal 16% Superphosphate...	Denton.....	....	....	....	....	....	....	.40	16.00	**16.00**	....	....
Baughphos, The Ideal 16% Superphosphate...	Brunswick.....	....	....	....	....	....	....	.50	16.00	**16.20**	....	....
Baughphos, The Ideal 16% Superphosphate...	Baltimore.....	....	....	....	....	....	....	.50	16.00	**16.10**	....	....
Baughphos, The Ideal 16% Superphosphate...	Baltimore.....	....	....	....	....	....	....	1.70	16.00	**16.60**	....	....
Lime and Phosphate.....	Denton.....	....	....	....	....	....	....	.10	14.00	**15.90**	....	....
Commercial Crop Compound.....	Baltimore.....	2.00	**1.99**	1.40	**1.49**	.60	**.50**	.60	8.00	**8.20**	10.00	**10.40**
Commercial Crop Compound.....	Baltimore.....	2.00	**2.01**	1.40	**1.43**	.60	**.58**	.70	8.00	**8.30**	10.00	**10.36**
Complete Animal Base Fertilizer.....	Providence....	2.00	**2.13**	1.40	**1.49**	.60	**.64**	.40	8.00	**8.40**	5.00	**5.14**
Complete Animal Base Fertilizer.....	Woodbine.....	2.00	**2.01**	1.40	**1.52**	.60	**.49**	1.30	8.00	**8.20**	5.00	**5.28**
Complete Animal Base Fertilizer.....	Laurel.....	2.00	**2.01**	1.40	**1.54**	.60	**.47**	.40	8.00	**8.20**	5.00	**5.26**
Complete Animal Base Fertilizer.....	Denton.....	2.00	**2.01**	1.40	**1.46**	.60	**.55**	.40	8.00	**8.10**	5.00	**5.30**
Complete Animal Base Fertilizer.....	Boonsboro....	2.00	**2.04**	1.40	**1.39**	.60	**.65**	.40	8.00	**8.40**	5.00	**5.00**
Complete Animal Base Fertilizer.....	Baltimore.....	2.00	**2.04**	1.40	**1.45**	.60	**.59**	.40	8.00	**8.60**	5.00	**5.32**
Complete Animal Base Fertilizer.....	Baltimore.....	2.00	**1.99**	1.40	**1.39**	.60	**.60**	.50	8.00	**8.60**	5.00	**5.32**
Domestic Sheep Manure.....	Baltimore.....	2.00	**1.98**	....	....	....	....	....	*1.00	***1.00**	1.00	**2.50**
Double Eagle Phosphate.....	Woodbine.....	2.00	**2.01**	1.40	**1.40**	.60	**.61**	1.20	12.00	**11.90**	4.00	**4.24**
Double Eagle Phosphate.....	Denton.....	2.00	**1.98**	1.40	**1.43**	.60	**.55**	.60	12.00	**12.40**	4.00	**4.40**
Double Eagle Phosphate.....	Baltimore.....	2.00	**1.99**	1.40	**1.40**	.60	**.59**	.40	12.00	**12.40**	4.00	**4.20**
Double Eagle Phosphate.....	Baltimore.....	2.00	**2.01**	1.40	**1.39**	.60	**.62**	.60	12.00	**12.60**	4.00	**4.30**
Excelsior Mixture.....	Parkton	1.00	**1.18**	.60	**.66**	.40	**.52**	.40	9.00	**9.30**	4.00	**4.04**
Excelsior Mixture.....	Woodbine.....	1.00	**1.24**	.60	**.77**	.40	**.47**	1.30	9.00	**9.30**	4.00	**4.20**
Excelsior Mixture.....	Denton.....	1.00	**1.17**	.60	**.66**	.40	**.51**	.60	9.00	**9.50**	4.00	**4.28**
Excelsior Mixture.....	Baltimore.....	1.00	**1.14**	.60	**.70**	.40	**.44**	1.00	9.00	**9.40**	4.00	**4.00**
Excelsior Mixture.....	Baltimore.....	1.00	**1.21**	.60	**.63**	.40	**.58**	1.30	9.00	**9.60**	4.00	**4.20**
High Grade Ground Tankage	Denton.....	8.00	**7.99**	....	....	....	....	....	....	....	....	....
Muriate of Potash.....	Baltimore.....	....	....	....	....	....	....	....	....	....	48.00	**51.70**
The Old-Stand-By.....	Baltimore.....	2.00	**1.88**	1.40	**1.39**	.60	**.49**	**2.30**	12.00	**11.80**	2.00	**3.50**
Phosphate and Potash Mixture.....	Denton.....	....	....	....	....	....	....	.20	12.00	**12.40**	5.00	**5.30**
Phosphate and Potash Mixture.....	Baltimore.....	....	....	....	....	....	....	.20	12.00	**12.50**	5.00	**5.32**
Phosphate and Potash Mixture.....	Baltimore.....	....	....	....	....	....	....	.40	12.00	**12.60**	5.00	**5.00**
Phosphate and Potash Mixture.....	Clear Spring...	....	....	....	....	....	....	.60	12.00	**12.80**	5.00	**5.24**
Pure Steamed Bone Meal.....	Baltimore.....	2.47	**3.26**	....	....	....	....	....	*23.00	***26.40**	....	....
Raw Bone Meal.....	Laurel.....	3.70	**3.86**	....	....	....	....	....	*21.50	***21.60**	....	....
Raw Bone Meal.....	Baltimore.....	3.70	**3.83**	....	....	....	....	....	*21.50	***21.90**	....	....
Raw Bone Meal.....	Baltimore.....	3.70	**3.79**	....	....	....	....	....	*21.50	***22.10**	....	....
Sulphate of Ammonia.....	Baltimore.....	20.57	**20.56**	....	....	....	....	....	....	....	....	....
2-12-6.....	Maugansville ..	2.00	**2.01**	1.40	**1.39**	.60	**.62**	.60	12.00	**12.70**	6.00	**6.40**
2-12-6.....	Clear Spring...	2.00	**2.11**	1.40	**1.45**	.60	**.66**	.70	12.00	**13.10**	6.00	**6.20**
Wheat Fertilizer for Wheat and Grass.....	Baltimore.....	2.00	**2.04**	1.40	**1.47**	.60	**.57**	.70	9.00	**9.40**	3.00	**3.34**

* Total Phosphoric Acid.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Herbert Bryant's Son, Alexandria, Va.												
Belle Haven Ammoniated	Rockville	2.00	**2.08**	1.00	**1.12**	1.00	**.96**	**.30**	8.00	**8.50**	5.00	**5.16**
Belle Haven Ammoniated	Wash'ton Gr'e	2.00	**1.90**	1.00	**.98**	1.00	**.92**	**.50**	8.00	**8.10**	5.00	**5.32**
Excelsior Ammoniated	Hyattsville	5.00	**4.53**	3.75	**3.02**	1.25	**1.51**	**.60**	8.00	**8.00**	5.00	**5.40**
Genuine Fish and Potash Brand	Wash'ton Gr'e	2.00	**2.13**	1.00	**1.04**	1.00	**1.09**	**.30**	9.00	**9.70**	2.00	**2.28**
High Grade Fish and Potash Brand	Wash'ton Gr'e	2.00	**2.13**	1.00	**.93**	1.00	**1.20**	**.80**	8.00	**8.20**	3.00	**3.30**
High Grade Truck and Potato	Hyattsville	3.00	**2.91**	1.80	**1.59**	1.20	**1.32**	**.50**	8.00	**9.30**	5.00	**5.10**
High Grade Truck and Potato	Hyattsville	3.00	**2.70**	1.80	**1.46**	1.20	**1.24**	**.60**	8.00	**8.70**	5.00	**5.20**
Pure Animal Bone Meal	Hyattsville	3.70	**4.00**	....	....	....	....	....	*20.60	*21.80	....	....
Central Chemical Co., Inc., Hagerstown, Md.												
"Gro-All" Dissolved Phosphate	Frederick	....	....	....	....	....	....	**.60**	16.00	**16.00**	....	....
"Gro-All" Dissolved Phosphate	Baltimore	....	....	....	....	....	....	**.40**	16.00	**16.80**	....	....
"Gro-All" Dissolved Phosphate	Baltimore	....	....	....	....	....	....	**.60**	16.00	**16.40**	....	....
"Gro-All" Dissolved Phosphate	Baltimore	....	....	....	....	....	....	**.60**	16.00	**16.60**	....	....
"MB & W" Super Phosphate	Centreville	....	....	....	....	....	....	**.50**	16.00	**17.00**	....	....
"MB & W" Caroline Special	Centreville	1.00	**1.10**	0.00	**.28**	1.00	**.82**	**.20**	10.00	**10.00**	4.00	**4.10**
†"Gro-All" Crown Jewel	Baltimore	1.00	**1.22**	.25	**.73**	.75	**.49**	**.10**	9.00	**9.90**	4.00	**4.24**
"Gro-All" Crown Jewel	Baltimore	1.00	**1.22**	.25	**.55**	.75	**.67**	**.20**	9.00	**9.50**	4.00	**4.40**
"Gro-All" Excelsior	Motters	2.00	**1.99**	1.00	**1.02**	1.00	**.97**	**.20**	8.00	**8.10**	5.00	**5.10**
†"Gro-All" Excelsior	Frederick	2.00	**2.04**	1.00	**1.46**	1.00	**.58**	**.10**	8.00	**8.80**	5.00	**5.32**
†"Gro-All" Excelsior	Baltimore	2.00	**2.01**	1.00	**1.36**	1.00	**.65**	**.20**	8.00	**8.30**	5.00	**5.06**
†"Gro-All" Excelsior	Baltimore	2.00	**2.06**	1.00	**1.33**	1.00	**.73**	**.10**	8.00	**8.30**	5.00	**5.20**
†"Gro-All" Excelsior	Big Spring	2.00	**2.01**	1.00	**1.38**	1.00	**.63**	**.20**	8.00	**8.40**	5.00	**5.20**
"Gro-All" Grain Food	Hagerstown	2.00	**2.05**	1.00	**1.04**	1.00	**1.01**	**.30**	12.00	**12.30**	4.00	**4.24**
†"Gro-All" Grain Food	Smithsburg	2.00	**2.01**	1.00	**1.12**	1.00	**.89**	**.20**	12.00	**12.20**	4.00	**4.10**
†"Gro-All" Grain and Grass Grower	Baltimore	2.00	**2.08**	1.00	**1.40**	1.00	**.68**	**.30**	12.00	**12.20**	2.00	**2.32**
†"Gro-All" Potash Special	Frederick	....	....	....	....	....	....	**.50**	12.00	**12.20**	5.00	**5.72**
"Gro-All" Potash Special	Baltimore	....	....	....	....	....	....	**.40**	12.00	**12.30**	5.00	**5.38**
†"Gro-All" Super Fish Brand	Baltimore	2.00	**2.08**	.20	**.62**	1.80	**1.46**	**.30**	12.00	**12.70**	6.00	**6.40**
†"Gro-All" Super Fish Brand	Frederick	2.00	**2.02**	.20	**.73**	1.80	**1.32**	**.60**	12.00	**12.50**	6.00	**6.40**
†"Gro-All" Super Fish Brand	Baltimore	2.00	**2.06**	.20	**.53**	1.80	**1.53**	**.70**	12.00	**12.60**	6.00	**6.42**
†"Gro-All" Super-Fish Brand	Clear Spring	2.00	**2.11**	.20	**.51**	1.80	**1.61**	**.70**	12.00	**12.60**	6.00	**6.40**
†"Gro-All" 2-9-2	Frederick	2.00	**1.99**	1.00	**1.57**	1.00	**.42**	**.60**	9.00	**9.80**	2.00	**2.30**

†"Gro-All" Super Fish Brand	Baltimore	2.00	**2.08**	.20	**.62**	1.80	**1.46**	**.30**	12.00	**12.70**	6.00	**6.40**
†"Gro-All" Super Fish Brand	Frederick	2.00	**2.02**	.20	**.73**	1.80	**1.32**	**.60**	12.00	**12.50**	6.00	**6.40**
†"Gro-All" Super Fish Brand	Baltimore	2.00	**2.06**	.20	**.53**	1.80	**1.53**	**.70**	12.00	**12.60**	6.00	**6.42**
†"Gro-All" Super-Fish Brand	Clear Spring	2.00	**2.11**	.20	**.51**	1.80	**1.61**	**.70**	12.00	**12.60**	6.00	**6.40**
†"Gro-All" 2-9-2	Frederick	2.00	**1.99**	1.00	**1.57**	1.00	**.42**	**.60**	9.00	**9.80**	2.00	**2.30**
"Gro-All" 2-9-2	Baltimore	2.00	**2.08**	1.00	**1.24**	1.00	**.84**	**.30**	9.00	**10.00**	2.00	**2.20**
Chewsville Cooperative Asso., Chewsville, Md.												
Superphosphate	Chewsville	....	....	....	....	....	....	**.20**	16.00	**16.60**	....	....
Golden Harvest	Chewsville	2.00	**2.15**	1.00	**1.31**	1.00	**.84**	**.30**	10.00	**11.90**	5.00	**5.00**
Phosphate and Potash	Chewsville	....	....	....	....	....	....	**.80**	12.00	**12.70**	5.00	**5.06**
Clark & Owings, Ellicott City, Md.												
Mixture "D"	Ellicott City	2.00	**1.99**	.70	**.73**	1.30	**1.26**	**.40**	9.00	**9.30**	5.00	**5.30**
Mixture "D"	Baltimore	2.00	**2.12**	.70	**.73**	1.30	**1.39**	**.40**	9.00	**9.60**	5.00	**5.40**
Devilbiss Bros., New Windsor, Md.												
Superphosphate	New Windsor	....	....	....	....	....	....	**.30**	16.00	**17.70**	....	....
Superphosphate	New Windsor	....	....	....	....	....	....	**.40**	16.00	**18.00**	....	....
Butcher House	New Windsor	1.00	**1.15**	.70	**.77**	.30	**.38**	**.50**	10.00	**10.80**	5.00	**5.40**
Butcher House	New Windsor	1.00	**1.12**	.70	**.84**	.30	**.28**	**.50**	10.00	**11.10**	5.00	**6.10**
2-8-5	New Windsor	2.00	**2.02**	1.50	**1.57**	.50	**.45**	**.40**	8.00	**9.80**	5.00	**5.24**
2-8-5	New Windsor	2.00	**1.99**	1.50	**1.45**	.50	**.54**	**.50**	8.00	**9.80**	5.00	**5.40**
Wheat Grower	New Windsor	1.00	**1.19**	.70	**.83**	.30	**.36**	**.50**	9.00	**9.80**	4.00	**4.40**
Wheat Grower	New Windsor	1.00	**1.07**	.70	**.77**	.30	**.30**	**.50**	9.00	**10.40**	4.00	**4.40**
Dorchester Fert. Co., Cambridge, Md.												
Choice	Cambridge	2.00	**2.06**	1.70	**1.87**	.30	**.19**	**.20**	8.00	**7.90**	6.00	**6.38**
Dorco Gem	Cambridge	1.00	**1.08**	.75	**.80**	.25	**.28**	**.50**	10.00	**10.50**	6.00	**6.20**
Favorite	Cambridge	2.00	**2.06**	1.80	**1.88**	.20	**.18**	**.30**	8.00	**9.40**	10.00	**10.16**
Harvest	Cambridge	....	....	....	....	....	....	**.70**	12.00	**12.10**	5.00	**5.24**
Standard	Cambridge	....	....	....	....	....	....	**.60**	11.00	**11.00**	8.00	**8.10**
Wheat Special	Cambridge	....	....	....	....	....	....	**.10**	13.00	**13.10**	3.00	**3.30**
Edelen Bros., Baltimore, Md.												
Wheat and Grain Mixture	Baltimore	2.00	**2.01**	1.00	**1.12**	1.00	**.89**	**.50**	8.00	**8.30**	5.00	**5.20**
Excelsior Plant Food Co., Cumberland, Md.												
Gro-Kwik	Cumberland	5.00	**8.61**	....	**5.73**	....	**2.88**	**3.00**	7.00	**4.70**	2.00	**2.00**
Farmers Cooperative Asso., Inc., Frederick, Md.												
Superphosphate	Frederick	....	....	....	....	....	....	**1.50**	16.00	**16.60**	....	....
Sure Crop	Frederick	2.00	**1.80**	1.30	**1.05**	.70	**.75**	**.50**	12.00	**13.40**	6.00	**6.40**
Sure Crop	Frederick	2.00	**1.99**	1.30	**1.31**	.70	**.67**	**.70**	12.00	**13.00**	6.00	**7.00**

† Mineral and Organic findings do not substantiate manufacturer's declaration, * Total Phosphoric Acid.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Farmers Cooperative Asso., Inc., Frederick,	**Md. (Cont.)**											
Rock and Potash Special	Frederick	....	....	....	....	....	....	**.90**	12.00	**12.10**	5.00	**5.28**
Wheat and Grass Special	Frederick	2.00	**2.13**	1.10	**1.36**	.90	**.76**	**.70**	8.00	**9.20**	5.00	**6.00**
Wheat and Grass Special	Frederick	2.00	**1.88**	1.10	**.98**	.90	**.88**	**.70**	8.00	**9.20**	5.00	**6.12**
Farmers' Fert. & Feed Co., Westminster, M	**d.**											
Farmers' Favorite	Westminster	1.00	**1.18**	.15	**.27**	.85	**.91**	**.60**	10.00	**10.00**	5.00	**5.00**
Farmers' Favorite	Westminster	1.00	**1.10**	.15	**.31**	.85	**.80**	**1.10**	10.00	**10.00**	5.00	**5.30**
Potato Grower	Westminster	2.00	**2.16**	1.15	**1.28**	.85	**.88**	**.70**	8.00	**8.00**	5.00	**5.24**
Potato Grower	Westminster	2.00	**2.02**	1.15	**1.45**	.85	**.57**	**.90**	8.00	**8.30**	5.00	**5.10**
Potash Special	Westminster	2.00	**2.08**	1.30	**1.40**	.70	**.68**	**.40**	8.00	**8.10**	10.00	**10.16**
Potash Special	Westminster	2.00	**2.05**	1.30	**1.47**	.70	**.58**	**.80**	8.00	**8.00**	10.00	**10.36**
Superphosphate and Potash	Westminster	....	....	....	....	....	....	**.40**	12.00	**12.10**	5.00	**5.40**
Superphosphate and Potash	Westminster	....	....	....	....	....	....	**.90**	12.00	**12.20**	5.00	**5.22**
X X Fertilizer	Westminster	1.00	**1.17**	.15	**.29**	.85	**.88**	**1.20**	9.00	**8.70**	3.00	**3.36**
X X Fertilizer	Westminster	1.00	**1.17**	.15	**.28**	.85	**.89**	**1.10**	9.00	**9.10**	3.00	**3.36**
X X X Fertilizer	Westminster	1.00	**1.21**	.15	**.41**	.85	**.80**	**1.00**	9.00	**9.20**	4.00	**3.68**
X X X Fertilizer	Westminster	1.00	**1.05**	.15	**.42**	.85	**.63**	**.90**	9.00	**9.40**	4.00	**4.40**
Farmers & Planters Co., Salisbury, Md.												
Acid Phosphate	Salisbury	....	....	....	....	....	....	**.20**	16.00	**16.20**	....	....
Fish Brand Fertilizer	Salisbury	2.00	**2.04**	1.20	**1.15**	.80	**.89**	**.70**	8.00	**8.20**	5.00	**5.00**
Rock and Kainit	Salisbury	....	....	....	....	....	....	**.30**	7.00	**6.70**	5.00	**6.20**
Special Potash Mixture	Salisbury	....	....	....	....	....	....	**.70**	12.00	**10.90**	5.00	**4.60**
Griffith & Boyd Co., Baltimore, Md.												
Acid Phosphate H. G.	Baltimore	....	....	....	....	....	....	**.30**	16.00	**17.10**	....	....
Lime Phosphate	Baltimore	....	....	....	....	....	....	**1.20**	14.00	**14.70**	....	....
Gilt Edge Crop Guano	Baltimore	2.00	**2.08**	.40	**.42**	1.60	**1.66**	**.40**	8.00	**8.30**	10.00	**10.32**
Pure Fine Ground Bone Meal	Baltimore	3.70	**3.86**	....	....	....	....	....	*20.00	*22.60	....	....
Special Guano	Elk Mills	2.00	**2.02**	1.40	**1.38**	.60	**.64**	**.20**	8.00	**8.00**	5.00	**5.12**
Special Guano	Baltimore	2.00	**2.09**	1.40	**1.33**	.60	**.76**	**.50**	8.00	**8.90**	5.00	**5.04**
Special Guano	Baltimore	2.00	**2.02**	1.40	**1.32**	.60	**.70**	**.30**	8.00	**8.70**	5.00	**5.12**

Pure Fine Ground Bone Meal	Baltimore	3.70	**3.86**	....	....	....	....	....	*20.00	***22.60**	....	....
Special Guano	Elk Mills	2.00	**2.02**	1.40	**1.38**	.60	**.64**	**.20**	8.00	**8.00**	5.00	**5.12**
Special Guano	Baltimore	2.00	**2.09**	1.40	**1.33**	.60	**.76**	**.50**	8.00	**8.90**	5.00	**5.04**
Special Guano	Baltimore	2.00	**2.02**	1.40	**1.32**	.60	**.70**	**.30**	8.00	**8.70**	5.00	**5.12**
Griffith & Turner Co., Baltimore, Md.												
Alkaline Plant Food	Baltimore	1.00	**1.26**	.20	**.42**	.80	**.84**	**.50**	10.00	**10.40**	3.00	**3.32**
Soft Ground Bone	Baltimore	3.00	**2.77**	....	....	....	....	....	*14.00	***15.10**	....	....
Special Truck Mixture	Baltimore	4.00	**3.90**	2.80	**2.39**	1.20	**1.58**	**.40**	8.00	**10.30**	6.00	**6.30**
Hampstead Fertilizer Co., Hampstead, Md.												
Superphosphate	Hampstead	....	....	....	....	....	....	**.80**	16.00	**17.20**	....	....
1-9-4	Hampstead	1.00	**1.04**	.50	**.48**	.50	**.56**	**.20**	9.00	**9.30**	4.00	**4.40**
1-9-4	Hampstead	1.00	**1.02**	.50	**.45**	.50	**.57**	**.50**	9.00	**9.30**	4.00	**4.40**
2-8-5	Hampstead	2.00	**2.01**	1.20	**1.26**	.80	**.75**	**.10**	8.00	**9.00**	5.00	**5.40**
2-8-5	Hampstead	2.00	**2.76**	1.20	**.70**	.80	**2.06**	**.10**	8.00	**8.80**	5.00	**5.04**
2-8-10	Hampstead	2.00	**2.06**	1.20	**1.36**	.80	**.70**	**.10**	8.00	**9.10**	10.00	**10.16**
Hubbard Fertilizer Co., Baltimore, Md.												
Superphosphate	Denton	....	....	....	....	....	....	**.50**	16.00	**16.30**	....	....
Alkaline	Denton	....	....	....	....	....	....	**.50**	12.00	**11.60**	5.00	**5.06**
Money Maker Fertilizer	Denton	2.00	**2.06**	1.00	**1.12**	1.00	**.94**	**.40**	8.00	**8.50**	5.00	**5.04**
†Money Maker Fertilizer	Boonsboro	2.00	**2.09**	1.00	**1.59**	1.00	**.50**	**.40**	8.00	**8.50**	5.00	**5.00**
Money Maker Fertilizer	Baltimore	2.00	**2.11**	1.00	**1.36**	1.00	**.75**	**.20**	8.00	**8.20**	5.00	**5.30**
Lancaster Bone Fert. Co., Inc., Quarryville, Pa.												
Conestoga Brand Super Phosphate	Colora	....	....	....	....	....	....	**.30**	16.00	**16.10**	....	....
Maryland Mill. & Supply Co., Sykesville, Md.												
Super-Phosphate H. G.	Sykesville	....	....	....	....	....	....	**.40**	16.00	**16.80**	....	....
Dietrich's Favorite	Sykesville	1.00	**1.35**	.60	**.59**	.40	**.76**	**.50**	8.00	**8.40**	4.00	**5.10**
1932 Mixture	Woodbine	2.00	**2.11**	1.00	**.98**	1.00	**1.12**	**.70**	12.00	**12.40**	4.00	**4.44**
Newman's Favorite	Sykesville	2.00	**2.42**	1.40	**.84**	.60	**1.60**	**.30**	8.00	**8.70**	5.00	**5.30**
Phosphate and Potash	Sykesville	....	....	....	....	....	....	**.70**	12.00	**12.90**	5.00	**5.30**
Massey & Wilmer, Chestertown, Md.												
Crop Producer	Chestertown	1.00	**1.04**	.70	**.62**	.30	**.42**	**.70**	9.00	**10.10**	4.00	**4.24**
Trustworthy	Chestertown	2.00	**1.98**	1.00	**.84**	1.00	**1.14**	**1.20**	8.00	**9.10**	5.00	**5.02**
0-12-5	Chestertown	....	....	....	....	....	....	**.80**	12.00	**12.30**	5.00	**5.30**
Medford Fertilizer Works, Medford, Md.												
1-8-5	Medford	1.00	**1.04**	.50	**.58**	.50	**.46**	**.50**	8.00	**8.10**	5.00	**5.80**
1-10-5	Medford	1.00	**.87**	.50	**.42**	.50	**.45**	**.80**	10.00	**10.00**	5.00	**5.32**
2-8-5	Medford	2.00	**2.78**	1.50	**2.44**	.50	**.34**	**.50**	8.00	**8.00**	5.00	**5.72**

* Total Phosphoric Acid.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Medford Fert. Works, Medford, Md. (Cont.)												
2-8-5	Medford	2.00	**1.92**	1.50	**1.54**	.50	**.40**	**.50**	8.00	**8.40**	5.00	**6.00**
0-12-5	Medford	....	....	....	....	....	....	**.40**	12.00	**12.10**	5.00	**5.32**
F. Mehring Fert. Works, Inc., Keymar, Md.												
Superphosphate	Keymar	....	....	....	....	....	....	**.30**	16.00	**16.30**	....	....
Superphosphate	Baltimore	....	....	....	....	....	....	**.60**	16.00	**16.40**	....	....
Superphosphate	Keymar	....	....	....	....	..	....	**1.00**	16.00	**18.20**	....	....
Big 4	Keymar	1.00	**1.21**	.75	**.86**	.25	**.35**	**.60**	9.00	**9.10**	4.00	**4.40**
Big 4	Baltimore	1.00	**1.18**	.75	**.39**	.25	**.78**	**.30**	9.00	**9.20**	4.00	**4.04**
Big 4	Keymar	1.00	**1.05**	.75	**.69**	.25	**.36**	**.80**	9.00	**9.70**	4.00	**4.40**
Big 4	Baltimore	1.00	**1.29**	.75	**.59**	.25	**.72**	**.20**	9.00	**9.00**	4.00	**4.24**
Indian Chief	Keymar	2.00	**2.06**	1.75	**1.38**	.25	**.68**	**1.00**	12.00	**11.40**	6.00	**6.04**
Mammoth Truck Grower	Keymar	2.00	**2.19**	1.75	**2.06**	.25	**.13**	**.60**	8.00	**9.00**	5.00	**5.90**
Mammoth Truck Grower	Baltimore	2.00	**2.04**	1.75	**1.29**	.25	**.75**	**.10**	8.00	**8.50**	5.00	**5.10**
Mammoth Truck Grower	Baltimore	2.00	**2.01**	1.75	**1.31**	.25	**.70**	**.20**	8.00	**8.00**	5.00	**5.24**
Mammoth Truck Grower	Keymar	2.00	**2.01**	1.75	**.67**	.25	**.41**	**.60**	8.00	**8.80**	5.00	**5.24**
Mammoth Truck Grower	Baltimore	2.00	**2.05**	1.75	**1.35**	.25	**.65**	**.20**	8.00	**8.00**	5.00	**5.10**
Miller Fertilizer Co., Baltimore, Md.												
Superphosphate 20%	Elkton	....	....	....	....	....	....	**.20**	20.00	**19.30**	....	....
Superphosphate 16%	Lineboro	....	....	....	....	....	....	**.40**	16.00	**16.20**	....	....
Superphosphate 16%	Laurel	....	....	....	....	....	....	**.60**	16.00	**16.50**	....	....
Superphosphate 16%	Cambridge	....	....	....	....	....	....	**.60**	16.00	**16.00**	....	....
Superphosphate 16%	Baltimore	....	....	....	....	....	....	**.70**	16.00	**16.20**	....	....
Superphosphate 16%	Baltimore	....	....	....	....	....	....	**.60**	16.00	**16.70**	....	....
4-12-4	Baltimore	4.00	**3.99**	3.20	**3.03**	.80	**.96**	**.40**	12.00	**12.40**	4.00	**4.38**
4-12-4	Baltimore	4.00	**4.00**	3.20	**3.29**	.80	**.71**	**.30**	12.00	**12.30**	4.00	**4.30**
Harvest Queen	Lineboro	1.00	**1.19**	.25	**.46**	.75	**.73**	**.10**	9.00	**9.60**	4.00	**4.30**
Harvest Queen	Cambridge	1.00	**1.14**	.25	**.48**	.75	**.66**	**.40**	9.00	**8.80**	4.00	**4.24**
Harvest Queen	Baltimore	1.00	**1.15**	.25	**.35**	.75	**.80**	**.40**	9.00	**9.10**	4.00	**4.10**
Harvest Queen	Baltimore	1.00	**1.11**	.25	**.35**	.75	**.76**	**.30**	9.00	**9.00**	4.00	**4.40**
3-12-6	Lineboro	3.00	**2.72**	2.25	**1.94**	.75	**.78**	**.30**	12.00	**11.60**	6.00	**6.08**
2-12-6	Baltimore	2.00	**2.06**	1.00	**1.25**	1.00	**.81**	**.50**	12.00	**12.10**	6.00	**6.36**

Harvest Queen	Baltimore	1.00	**1.15**	.25	**.35**	.75	**.80**	**.40**	9.00	**9.10**	4.00	**4.10**
Harvest Queen	Baltimore	1.00	**1.11**	.25	**.35**	.75	**.76**	**.30**	9.00	**9.00**	4.00	**4.40**
3-12-6	Lineboro	3.00	**2.72**	2.25	**1.94**	.75	**.78**	**.30**	12.00	**11.60**	6.00	**6.08**
2-12-6	Baltimore	2.00	**2.06**	1.00	**1.25**	1.00	**.81**	**.50**	12.00	**12.10**	6.00	**6.36**
2-12-4	Fowblesburg	2.00	**1.99**	1.00	**.87**	1.00	**1.12**	**.50**	12.00	**12.00**	4.00	**4.02**
2-12-4	Lineboro	2.00	**1.99**	1.00	**1.05**	1.00	**.94**	**.50**	12.00	**11.60**	4.00	**4.38**
†2-8-5	Baltimore	2.00	**2.16**	1.00	**1.40**	1.00	**.76**	**.30**	12.00	**12.00**	4.00	**4.40**
2-8-5	Elkton	2.00	**1.78**	1.00	**1.10**	1.00	**.68**	**.20**	8.00	**8.80**	5.00	**5.24**
†2-8-5	Fowblesburg	2.00	**2.01**	1.00	**1.19**	1.00	**.82**	**.20**	8.00	**8.60**	5.00	**5.20**
2-8-5	Cambridge	2.00	**2.15**	1.00	**1.54**	1.00	**.61**	**.30**	8.00	**8.50**	5.00	**5.26**
†2-8-5	Denton	2.00	**2.04**	1.00	**1.12**	1.00	**.92**	**.10**	8.00	**8.70**	5.00	**5.30**
2-8-5	Baltimore	2.00	**2.02**	1.00	**1.47**	1.00	**.55**	**.10**	8.00	**8.90**	5.00	**5.16**
2-8-5	Baltimore	2.00	**2.05**	1.00	**1.26**	1.00	**.79**	**.10**	8.00	**8.20**	5.00	**5.20**
0-12-5	Baltimore	2.00	**2.01**	1.00	**1.29**	1.00	**.71**	**.30**	8.00	**8.00**	5.00	**5.12**
Wheat and Grass	Baltimore	....	....	....	....	....	...	**.50**	12.00	**12.30**	5.00	**4.64**
		2.00	**2.01**	1.00	**1.04**	1.00	**.97**	**.30**	12.00	**12.20**	2.00	**2.20**
G. Ober & Sons Co., Baltimore, Md.												
Superphosphate H. G.	Baltimore	....	....	....	....	....	....	**.90**	16.00	**16.10**	....	....
Superphosphate H. G.	Baltimore	....	....	....	....	....	....	**1.10**	16.00	**16.00**	....	....
Special Plant Food	Baltimore	2.00	**1.80**	1.60	**1.35**	.40	**.45**	**1.00**	8.00	**9.00**	5.00	**5.12**
Swan E Guano	Baltimore	2.00	**2.11**	1.60	**1.68**	.40	**.43**	**.80**	9.00	**8.60**	3.00	**3.34**
Twelve and Five Potash Compound	Baltimore	....	....	....	....	....	....	**.90**	12.00	**13.00**	5.00	**5.00**
Twelve and Five Potash Compound	Baltimore	....	....	....	....	....	....	**1.10**	12.00	**12.30**	5.00	**5.24**
Pacific Manure & Fert. Co., San Francisco, Calif.												
Groz-It-Brand Pulverized Sheep Manure	Baltimore	1.50	**1.07**	....	....	....	....	....	*.75	***.70**	2.50	**2.58**
Patuxent Guano Co., Baltimore, Md.												
†Tip Top Fertilizer	Baltimore	2.00	**2.08**	1.00	**.39**	1.00	**1.69**	**.50**	8.00	**8.20**	10.00	**10.40**
Peerless Fertilizer Co., Chestertown, Md.												
Superphosphate	Chestertown	....	....	....	....	....	....	**1.60**	16.00	**16.80**	....	....
Farm Bell	Chestertown	....	....	....	....	....	....	**1.30**	9.00	**9.30**	5.00	**5.00**
Imperial Compound	Chestertown	1.00	**1.02**	.50	**.59**	.50	**.43**	**.80**	9.00	**9.70**	4.00	**4.10**
†Our Peerless	Chestertown	2.00	**2.05**	1.25	**1.66**	.75	**.39**	**.50**	8.00	**8.30**	5.00	**5.30**
0-12-5	Chestertown	....	....	....	....	....	....	**1.00**	12.00	**12.20**	5.00	**5.12**
Piedmont-Mt. Airy Guano Co., Inc., Balto., Md.												
Superphosphate	Baltimore	....	....	....	....	....	....	**.50**	16.00	**16.90**	....	....
†Farmers Favorite	Baltimore	1.00	**1.17**	.25	**.70**	.75	**.47**	**.30**	9.00	**10.00**	4.00	**4.16**
Farmers Favorite	Baltimore	1.00	**1.05**	.25	**.45**	.75	**.60**	**.30**	9.00	**9.10**	4.00	**4.18**
†Perfection Guano	Baltimore	2.00	**1.95**	1.00	**1.29**	1.00	**.66**	**.20**	8.00	**8.40**	5.00	**5.32**
Perfection Guano	Baltimore	2.00	**2.01**	1.00	**1.26**	1.00	**.75**	**.20**	8.00	**8.30**	5.00	**5.20**

† Mineral and Organic findings do not substantiate manufacturer's declaration. * Total Phosphoric Acid.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Piedmont-Mt. Airy Guano Co., Inc., Balto.,	**Md.** (Cont.)											
†2-12-4 Fertilizer	Baltimore	2.00	**2.08**	1.00	**1.41**	1.00	**.67**	**.30**	12.00	**12.50**	4.00	**4.36**
Wheat Compound	Baltimore	....	....	....	....	....	....	**.40**	12.00	**12.40**	5.00	**5.20**
Plantabbs Corp., Baltimore, Md.												
Fulton's Plantabbs	Baltimore	11.00	**11.22**	....	....	....	....	....	*15.00	***20.00**	20.00	**25.06**
Pulverized Manure Co., Chicago, Ill.												
Wizard Brand Cattle Manure	Baltimore	2.00	**1.85**	....	....	....	....	....	*1.00	***1.00**	1.00	**1.16**
Wizard Brand Cattle Manure	Baltimore	2.00	**2.02**	....	....	....	....	....	*1.00	***1.50**	1.00	**2.20**
Wizard Brand Pulverized Sheep Manure	Baltimore	2.00	**2.02**	....	....	....	....	....	*1.00	***1.40**	2.00	**3.40**
Ramsburg Fertilizer Co., Frederick, Md.												
Super Phosphate	Frederick	....	....	....	....	....	....	**.50**	16.00	**16.80**	....	....
Ammoniated Phosphate	Frederick	1.00	**1.40**	.65	**.84**	.35	**.56**	**.40**	10.00	**11.90**	4.00	**4.36**
Ammoniated Phosphate	Frederick	1.00	**1.12**	.65	**.60**	.35	**.52**	**.20**	10.00	**11.30**	4.00	**4.00**
Excelsior Plant Food	Frederick	2.00	**2.10**	1.40	**1.50**	.60	**.62**	**.90**	10.00	**10.10**	4.00	**4.24**
Excelsior Plant Food	Frederick	2.00	**2.07**	1.40	**1.43**	.60	**.65**	**.20**	10.00	**11.10**	4.00	**4.18**
Old Virginia Compound	Frederick	1.00	**1.33**	.65	**.81**	.35	**.52**	**.40**	10.00	**11.60**	5.00	**5.40**
Old Virginia Compound	Frederick	1.00	**1.14**	.65	**.74**	.35	**.40**	**.20**	10.00	**11.40**	5.00	**5.28**
Royal Crop Grower	Frederick	2.00	**2.43**	1.35	**1.50**	.65	**.93**	**.40**	12.00	**13.70**	6.00	**6.72**
Royal Crop Grower	Frederick	2.00	**2.13**	1.35	**1.31**	.65	**.82**	**.40**	12.00	**14.10**	6.00	**6.12**
Special 2-8-5 Fertilizer	Frederick	2.00	**2.02**	2.00	**1.32**	0.00	**.70**	**.30**	8.00	**9.70**	5.00	**6.40**
Special 2-8-5 Fertilizer	Frederick	2.00	**1.94**	2.00	**1.40**	0.00	**.54**	**.20**	8.00	**10.40**	5.00	**5.24**
Special Rock and Potash	Jefferson	....	....	....	....	....	....	**.20**	12.00	**15.00**	5.00	**5.10**
Special Rock and Potash	Frederick	....	....	....	....	....	....	**.30**	12.00	**15.50**	5.00	**3.72**
Special Rock and Potash	Frederick	....	....	....	....	....	....	**.20**	12.00	**15.30**	5.00	**5.34**
Rasin-Monumental Co., Baltimore, Md.												
Universal Crop Manure	Woodsboro	2.00	**2.11**	1.50	**1.49**	.50	**.62**	**.40**	8.00	**8.70**	5.00	**5.06**
Read Drug & Chemical Co., Baltimore, Md.												
Plantgro	Baltimore	4.00	**3.99**	4.00	**3.63**	0.00	**.36**	**.80**	12.00	**12.60**	4.00	**4.22**

Read Drug & Chemical Co., Baltimore, Md.												
Plantgro	Baltimore	4.00	**3.99**	4.00	**3.63**	0.00	**.36**	**.80**	12.00	**12.60**	4.00	**4.22**
Reindollar Company, Taneytown, Md.												
Acid Phosphate 16%	Taneytown	....	....	....	....	....	....	**.30**	16.00	**16.30**	....	....
Acid Phosphate 16%	Taneytown	....	....	....	....	....	....	**.70**	16.00	**16.80**	....	....
Crop Grower	Taneytown	2.00	**2.19**	1.50	**1.68**	.50	**.55**	**.90**	8.00	**9.50**	5.00	**6.10**
Crop Grower	Taneytown	2.00	**2.30**	1.50	**1.70**	.50	**.60**	**.40**	8.00	**8.70**	5.00	**5.14**
Grain Grower	Taneytown	2.00	**2.01**	1.17	**.76**	.83	**1.25**	**.70**	10.00	**11.10**	5.00	**5.20**
Rock and Potash	Taneytown	....	....	....	....	....	....	**.30**	12.00	**12.00**	5.00	**5.08**
Rock and Potash	Taneytown	....	....	....	....	....	....	**.50**	12.00	**12.40**	5.00	**5.36**
W. E. Robinson & Co., Bel Air, Md.												
Special Mixture	Fallston	2.00	**2.11**	1.40	**1.54**	.60	**.57**	**.20**	8.00	**8.10**	5.00	**5.28**
F. S. Royster Guano Co., Baltimore, Md.												
Superphosphate	Chestertown	....	....	....	....	....	....	**.20**	16.00	**16.60**	....	....
Superphosphate	Denton	....	....	....	....	....	....	**.50**	16.00	**16.30**	....	....
Bully Guano	Reisterstown	2.00	**1.98**	1.60	**1.49**	.40	**.49**	**.30**	8.00	**8.40**	5.00	**5.26**
Bully Guano	Denton	2.00	**1.98**	1.60	**1.54**	.40	**.44**	**.10**	8.00	**9.10**	5.00	**5.40**
Gem Guano	Denton	2.00	**2.01**	1.60	**1.54**	.40	**.47**	**.10**	12.00	**12.70**	4.00	**4.40**
Jim Dandy Guano	Rockville	2.00	**2.01**	1.60	**1.54**	.40	**.47**	**.70**	12.00	**12.40**	2.00	**2.34**
Phosphate and Potash	Chestertown	....	....	....	....	....	....	**.40**	12.00	**12.50**	5.00	**5.36**
Phosphate and Potash	Denton	....	....	....	....	....	....	**.20**	12.00	**12.80**	5.00	**5.10**
Rational Guano	Chestertown	1.00	**1.04**	.80	**.70**	.20	**.34**	**2.20**	9.00	**9.10**	4.00	**4.00**
Standard Wholesale Phosphate & Acid Works, Inc., Baltimore, Md.												
Standard U. S. Superphosphate 16%	Baltimore	....	....	....	....	...	...	**.60**	16.00	**16.00**	....	....
Standard U. S. Superphosphate 16%	Baltimore	....	....	....	....	...	...	**.90**	16.00	**16.10**	....	....
Standard U. S. 3-12-6	Baltimore	3.00	**3.00**	2.40	**2.39**	.60	**.61**	**.30**	12.00	**12.10**	6.00	**6.00**
Standard U. S. 2-12-6	Baltimore	2.00	**1.94**	1.60	**1.50**	.40	**.44**	**.70**	12.00	**12.10**	6.00	**5.64**
Standard U. S. 2-12-4	Jessups	2.00	**1.90**	1.60	....	.40	...	**.65**	12.00	**12.10**	4.00	**3.93**
Standard U. S. 2-8-5	Baltimore	2.00	**1.99**	1.60	**1.52**	.40	**.47**	**.30**	8.00	**8.50**	5.00	**5.00**
Standard U. S. 2-8-5	Baltimore	2.00	**2.01**	1.60	**1.53**	.40	**.48**	**.60**	8.00	**8.20**	5.00	**5.40**
Standard U. S. 2-8-5	Randallstown	2.00	**1.99**	1.60	**1.49**	.40	**.50**	**.60**	8.00	**8.10**	5.00	**5.00**
Standard U. S. 0-12-5	Baltimore	....	....	....	....	...	...	**.80**	12.00	**12.30**	5.00	**5.24**
Swift & Company, Baltimore, Md.												
Red Steer Superphosphate 16%	Thurmont	....	....	....	....	....	....	**.10**	16.00	**16.50**	....	....
Red Steer Superphosphate 16%	Brunswick	....	....	....	....	....	....	**.10**	16.00	**16.90**	....	....
Red Steer Superphosphate 16%	Baltimore	....	....	....	....	....	....	**.10**	16.00	**17.10**	....	....

† Mineral and Organic findings do not substantiate manufacturer's declaration. * Total Phosphoric Acid.

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Swift & Co., Baltimore, Md. (Cont.)												
Red Steer Superphosphate 16%	Baltimore	....	....	....	....	....	....	**.20**	16.00	**16.80**	....	....
Red Steer Superphosphate 16%	Baltimore	....	....	....	....	....	....	**.20**	16.00	**16.60**	....	....
Red Steer 3-12-6	Laurel	3.00	**2.95**	2.57	**2.37**	.43	**.58**	**.40**	12.00	**11.40**	6.00	**6.18**
Red Steer 2-12-4	Baltimore	2.00	**2.01**	1.57	**1.49**	.43	**.52**	**.30**	12.00	**12.70**	4.00	**4.16**
Red Steer 2-8-5	Street	2.00	**2.08**	1.58	**1.52**	.42	**.56**	**.10**	8.00	**8.20**	5.00	**5.00**
Red Steer 2-8-5	Thurmont	2.00	**2.11**	1.58	**1.60**	.42	**.51**	**.30**	8.00	**8.30**	5.00	**5.20**
Red Steer 2-8-5	Reisterstown	2.00	**2.01**	1.58	**1.54**	.42	**.47**	**.10**	8.00	**8.60**	5.00	**5.40**
Red Steer 2-8-5	Ridgely	2.00	**2.01**	1.58	**1.47**	.42	**.54**	**.30**	8.00	**8.10**	5.00	**5.14**
Red Steer 2-8-5	Boonsboro	2.00	**2.04**	1.58	**1.63**	.42	**.41**	**.20**	8.00	**8.40**	5.00	**5.24**
Red Steer 2-8-5	Baltimore	2.00	**2.01**	1.58	**1.60**	.42	**.40**	**.20**	8.00	**8.80**	5.00	**5.10**
Red Steer 0-12-5	Ridgely	....	....	....	....	...	...	**.40**	12.00	**12.50**	5.00	**5.12**
Red Steer 0-12-5	Baltimore	....	....	....	....	...	...	**.30**	12.00	**12.60**	5.00	**5.26**
Vigoro	Baltimore	4.00	**4.00**	3.84	**3.69**	.16	**.31**	**.20**	12.00	**12.90**	4.00	**4.30**
Tennessee Corp., Lockland, Ohio.												
Loma	Baltimore	5.00	**5.01**	4.00	**4.06**	1.00	**.95**	**1.00**	10.00	**10.70**	4.00	**4.04**
Thomas & Company, Gaithersburg, Md.												
Superphosphate	Gaithersburg	....	....	....	....	...	....	**.80**	16.00	**16.60**	....	....
Superphosphate	Gaithersburg	....	....	....	....	...	....	**.50**	16.00	**17.20**	....	....
Harvest Queen	Gaithersburg	1.00	**1.33**	.25	**.77**	.75	**.56**	**.60**	10.00	**10.10**	2.00	**2.32**
Rock and Potash	Gaithersburg	....	....	....	....	...	....	**.40**	12.00	**11.60**	5.00	**5.90**
Rock and Potash	Gaithersburg	....	....	....	....	...	....	**.40**	12.00	**11.80**	5.00	**5.20**
Wheat and Grass Grower	Gaithersburg	2.00	**2.27**	1.70	**1.73**	.30	**.54**	**.40**	8.00	**8.30**	5.00	**5.36**
Wheat and Grass Grower	Gaithersburg	2.00	**2.05**	1.70	**1.71**	.30	**.33**	**.40**	8.00	**8.80**	5.00	**6.24**
Wm. B. Tilghman Co., Salisbury, Md.												
Phosphate and Potash	Salisbury	....	....	....	....	...	...	**.90**	12.00	**12.50**	5.00	**5.40**
"Q" Brand	Salisbury	2.00	**2.13**	1.40	**1.19**	.60	**.94**	**1.10**	10.00	**10.60**	6.00	**7.20**
"S. P."	Salisbury	2.00	**2.11**	1.40	**1.08**	.60	**1.03**	**1.20**	8.00	**8.30**	10.00	**10.30**
Special	Salisbury	1.00	**1.43**	.70	**.83**	.30	**.60**	**.80**	9.00	**9.90**	4.00	**4.70**
Standard	Salisbury	2.00	**2.13**	1.40	**1.31**	.60	**.82**	**.70**	8.00	**8.00**	5.00	**6.44**

"Q" Brand	Salisbury	2.00	**2.13**	1.40	**1.19**	.60	**.94**	**1.10**	10.00	**10.60**	6.00	**7.20**
"S. P."	Salisbury	2.00	**2.11**	1.40	**1.08**	.60	**1.03**	**1.20**	8.00	**8.30**	10.00	**10.30**
Special	Salisbury	1.00	**1.43**	.70	**.83**	.30	**.60**	**.80**	9.00	**9.90**	4.00	**4.70**
Standard	Salisbury	2.00	**2.13**	1.40	**1.31**	.60	**.82**	**.70**	8.00	**8.00**	5.00	**6.44**
Tobacco By-Products & Chem. Corp., Richmond, Va.												
"Black Leaf" Tobacco-Stem Meal	Baltimore	1.16	**1.31**	....	....	....	....	....	....	....	4.00	**5.00**
Towson Nurseries, Towson, Md.												
Lawn Food	Towson	10.00	**10.23**	8.00	**8.05**	2.00	**2.18**	**3.90**	6.00	**7.40**	4.00	**4.30**
F. W. Tunnell & Co., Inc., Philadelphia, Pa.												
Fish Brand Mixture	Colora	2.00	**2.01**	.80	**.73**	1.20	**1.28**	**.60**	10.00	**10.10**	6.00	**6.30**
E. S. Valliant & Son, Centreville, Md.												
Ammoniated Potash Mixture	Centreville	1.00	**1.24**	.90	**1.05**	.10	**.19**	**.40**	11.00	**11.80**	5.00	**4.40**
Animal Base Brand	Centreville	1.00	**1.21**	.80	**.98**	.20	**.23**	**.90**	11.00	**10.80**	4.00	**4.24**
Fall Keystone	Centreville	2.00	**2.46**	1.75	**2.30**	.25	**.16**	**.40**	9.00	**10.00**	5.00	**5.20**
Favorite	Centreville	1.00	**1.19**	.80	**1.02**	.20	**.17**	**.60**	9.00	**9.30**	5.00	**5.40**
Grain Grower	Centreville	1.00	**1.24**	.80	**1.01**	.20	**.23**	**.70**	10.00	**10.00**	4.00	**4.36**
Harvest	Centreville	....	....	....	....	....	....	**.80**	12.00	**12.60**	5.00	**5.00**
Ideal	Centreville	....	....	....	....	....	....	**.60**	12.00	**12.60**	6.00	**6.00**
Keystone	Centreville	2.00	**2.29**	1.80	**2.06**	.20	**.23**	**.40**	8.00	**8.90**	5.00	**5.10**
Standard	Centreville	1.00	**1.47**	.85	**1.10**	.15	**.37**	**.90**	9.00	**10.00**	4.00	**4.10**
Winner	Centreville	2.00	**1.99**	1.70	**1.46**	.30	**.50**	**.40**	8.00	**8.80**	10.00	**9.76**
Virginia-Carolina Chemical Corp., Baltimore, Md.												
BloomAid, Tablet Form	Baltimore	10.00	**10.20**	10.00	**9.64**	0.00	**.56**	**.40**	14.00	**14.40**	6.00	**6.24**
V-C Fish, Bone and Potash Br. Fertilizer	Baltimore	2.00	**2.16**	1.50	**1.40**	.50	**.76**	**.80**	9.00	**9.60**	3.00	**3.40**
V-C Fairway Fertilizer	Baltimore	6.00	**6.64**	3.90	**4.09**	2.10	**2.60**	**.80**	6.00	**6.70**	5.00	**5.20**
A. H. Watson, Baltimore, Md.												
"Servo"	Baltimore	5.00	**5.24**	3.50	**2.57**	1.50	**2.67**	**.90**	12.00	**11.80**	4.00	**4.40**
Servo-Special	Baltimore	10.00	**10.60**	8.26	**8.01**	1.83	**2.59**	**.60**	6.00	**5.80**	4.00	**4.86**
Servo No. 2	Baltimore	8.00	**8.54**	3.36	**3.37**	4.64	**5.17**	**1.60**	6.00	**8.50**	4.00	**5.12**
Westminster Fert. Co., Westminster, Md.												
Superphosphate 16%	Westminster	....	....	....	....	....	....	**.10**	16.00	**16.30**	....	....
Superphosphate 16%	Westminster	....	....	....	....	....	....	**.30**	16.00	**17.00**	....	....
Leader	Westminster	1.00	**1.26**	.50	**.76**	.50	**.50**	**.10**	9.00	**9.00**	4.00	**5.20**
Leader	Westminster	1.00	**1.36**	.50	**.74**	.50	**.62**	**.30**	9.00	**9.10**	4.00	**4.70**
Super-A	Westminster	1.00	**1.26**	.50	**.70**	.50	**.56**	**.10**	11.00	**11.60**	2.00	**2.40**
Super-A	Westminster	1.00	**1.15**	.50	**.62**	.50	**.53**	**.30**	11.00	**12.40**	2.00	**2.70**
2-8-5	Westminster	2.00	**1.88**	1.30	**1.10**	.70	**.78**	**.20**	8.00	**9.00**	5.00	**5.02**
2-8-5	Westminster	2.00	**1.92**	1.30	**1.26**	.70	**.66**	**.10**	8.00	**8.30**	5.00	**4.90**

Manufacturer and Brand Name	Place of Sampling	NITROGEN (N)						PHOSPHORIC ACID (P_2O_5)			POTASH (K_2O)	
		Total		Mineral		Organic		Insoluble	Available			
		Guaranteed	FOUND	Declared	FOUND	Declared	FOUND	FOUND	Guaranteed	FOUND	Guaranteed	FOUND
Wil-Gro Company, Bridgeboro, N. J.												
Wil-Gro Flower Food	Baltimore	4.00	**4.18**	3.00	**2.99**	1.00	**1.19**	**2.00**	12.00	**14.80**	2.00	**4.30**
Worcester Fert. Co., Inc., Snow Hill, Md.												
Superphosphate 16%	Snow Hill	....	....	....	....	....	....	**.70**	16.00	**16.80**	....	....
Correct Plant Food Mixture 1-9-4	Snow Hill	1.00	**1.26**	.80	**.77**	.20	**.49**	**.50**	9.00	**9.10**	4.00	**4.10**
Correct Plant Food Mixture 2-8-5	Snow Hill	2.00	**1.99**	1.60	**1.35**	.40	**.64**	**.30**	8.00	**8.00**	5.00	**5.24**

FEED ANALYSES

A detailed report of the results obtained in the inspection and analysis of feeds from July 1, 1932, to November 1, 1932, is contained in pages 22 to 51, inclusive.

MANUFACTURER AND ADDRESS	NAME OF FEED
Acme-Evans Co., Indianapolis, Ind.	Red Dog
Agricultural Corp. Of Md., Balto., Md.	Maryland Intermediate Scratch Feed
Akron Feed Mills, Urbana, Ohio.	*Akron Dairy
" " "	Ohio Dairy
" " "	Portage Pig and Hog Meal
" " "	Ohio Chop
" " "	Portage Chick Starter
Alexandria Hay & Grain Co., Inc., Alexandria, Va.	Belle Haven 24 % Dairy Ration
Allen & Wheeler Co., Troy, Ohio.	Trojan Spring Bran
" " "	Trojan Standard Spring Middlings
" " "	Trojan White Middlings, with Ground Screenings N. Ex. M. R.
" " "	Trojan White Middlings, with Ground Screenings N. Ex. M. R.
" " "	Trojan Red Dog
Allied Mills, Inc., Chicago, Ill.	Wayne 26 % Mash Supplement
" " "	Wayne All Mash Grower, with Cod Liver Oil
" " "	Wayne All Mash Grower
" " "	Alfalfa Meal
" " "	Wayne Duck Starter
" " "	Wayne Turkey Mash
" " "	Wayne Rabbit Feed
Anchor Mills, Hagerstown, Md.	Zip Egg Mash
Anderson Grain & Feed Co., York, Pa.	32 % Dairy Mixing Ration
" " "	24 % Dairy Feed
" " "	16 % Dairy Feed
" " "	Mineraltone Laying Mash, with BM
" " "	Growing Mash, with DBM.
" " "	Broiler Ration
" " "	‡Manamar All Purpose Poultry Mash
" " "	Baby Chick Starting Mash, with DBM.
" " "	Chick Feed
Arcady Farms Milling Co., Chicago, Ill.	*Dairy Feed
" " "	Besbet Growing Mash
" " "	Special Horse Feed
" " "	All Mash Chick Starter and Grower
" " "	Wonder Rabbit Feed
Ashcraft-Wilkinson Co., Atlanta, Ga.	Soya Bean Meal
" " "	Prime Peanut Meal
" " "	Monarch Brand Prime Cottonseed Meal
" " "	Helmet Brand Prime Cottonseed Meal
" " "	Helmet Brand Prime Cottonseed Meal
" " "	Helmet Brand Prime Cottonseed Meal

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

SAMPLED FROM	Moisture	PROTEIN		FAT		FIBRE		Ash	Nitrogen Free Extract	INGREDIENTS
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Frederick.....	9.28	15.00	**16.20**	2.50	**3.78**	4.00	**3.18**	3.78	63.78	As declared on sack
Chestertown....	9.47	10.00	**10.35**	2.00	**2.64**	3.00	**1.94**	1.40	74.20	As declared on sack
Friendsville.....	8.77	24.00	**22.00**	3.50	**3.87**	12.00	**9.16**	9.21	46.99	A.
Friendsville.....	11.95	16.00	**15.21**	3.50	**3.27**	12.00	**10.92**	8.08	50.57	B.
Friendsville.....	9.05	18.00	**17.38**	3.50	**4.73**	8.00	**5.66**	8.18	55.00	As declared on sack
Friendsville.....	8.57	6.00	**7.72**	2.00	**2.59**	12.00	**16.44**	9.10	55.58	" "
Friendsville.....	9.07	15.00	**15.97**	4.00	**4.77**	6.00	**5.46**	4.80	59.93	" "
Gaithersburg....	7.93	24.00	**26.76**	4.50	**4.50**	10.00	**8.25**	6.95	45.61	As declared on sack
Owings Mills....	11.27	14.50	**16.41**	4.00	**4.11**	9.50	**9.68**	6.70	51.83	C. As decl'd on sack
Owings Mills....	10.87	14.00	**18.43**	4.00	**5.02**	9.50	**6.26**	4.88	54.54	As declared on sack
Baltimore.....	9.48	16.00	**16.06**	4.00	**5.48**	7.00	**6.59**	4.14	58.25	" "
Owings Mills....	10.41	16.00	**16.32**	4.00	**4.11**	7.00	**5.75**	4.12	59.29	" "
Owings Mills....	10.42	15.00	**15.53**	3.50	**3.15**	4.00	**4.16**	2.86	63.88	" "
Chestertown....	7.40	26.00	**26.50**	4.00	**5.69**	7.00	**6.41**	13.60	40.40	As declared on sack
Chestertown....	8.11	16.00	**16.15**	4.00	**4.94**	6.00	**4.89**	8.35	57.56	" "
Cumberland	9.71	16.00	**16.67**	4.00	**5.80**	6.00	**5.19**	7.92	54.71	" "
Chestertown....	7.16	13.50	**12.55**	1.50	**1.52**	33.00	**33.95**	8.28	36.54	" "
Cumberland	9.45	16.00	**18.87**	3.50	**4.67**	8.00	**7.11**	9.51	50.39	" "
Chestertown....	8.11	15.00	**16.76**	3.50	**5.06**	8.00	**6.69**	7.90	55.48	" "
Baltimore.....	8.07	13.00	**15.27**	3.50	**3.82**	8.00	**7.63**	6.63	58.58	" "
Alesia.....	8.89	18.00	**19.48**	4.00	**6.37**	6.00	**5.22**	9.50	50.54	As declared on sack
Denton.....	9.51	32.00	**34.13**	4.00	**5.38**	10.00	**7.44**	7.16	36.38	As declared on sack
Mt. Airy.....	9.44	24.00	**24.03**	4.00	**5.58**	12.00	**8.14**	7.85	44.96	" "
Westminster....	11.26	16.00	**19.03**	3.50	**3.99**	12.00	**10.35**	8.17	47.20	" "
Mt. Airy.....	8.59	20.00	**21.67**	4.00	**7.08**	8.00	**6.20**	7.27	49.19	" "
Mt. Airy.....	9.02	17.00	**18.78**	4.00	**6.15**	6.00	**5.58**	8.30	52.17	" "
Mt. Airy.....	8.79	17.00	**19.13**	4.00	**6.54**	6.00	**4.52**	7.78	53.24	" "
Mt. Airy.....	10.34	16.00	**17.20**	4.00	**6.31**	6.00	**4.98**	7.16	54.01	" "
Mt. Airy.....	7.97	16.00	**17.72**	4.00	**4.92**	6.00	**3.73**	6.30	59.36	D.
Mt. Airy.....	11.56	9.00	**11.06**	2.00	**3.66**	5.00	**2.12**	1.96	69.64	As declared on sack
Walkersville	9.58	16.00	**16.84**	4.00	**3.21**	12.50	**11.68**	10.02	48.67	As declared on sack
Hagerstown.....	9.98	16.00	**17.02**	4.00	**4.83**	7.50	**6.27**	11.50	50.40	" "
Clinton.....	10.64	8.00	**9.25**	2.00	**2.66**	12.00	**8.59**	5.38	63.48	" "
Hagerstown.....	10.30	17.00	**17.38**	5.00	**4.66**	5.00	**5.00**	7.76	54.90	" "
Baltimore.....	11.95	12.00	**13.11**	3.50	**3.32**	7.00	**5.98**	6.88	58.76	" "
Cambridge.....	7.00	48.00	**48.27**	6.00	**8.96**	10.00	**4.82**	5.91	25.04	As declared on sack
Cambridge.....	7.09	45.00	**47.83**	6.00	**7.29**	10.00	**7.07**	6.13	24.59	" "
Baltimore.....	6.87	43.00	**43.97**	6.00	**7.00**	10.00	**8.93**	6.13	27.10	" "
Baltimore.....	7.38	41.00	**42.65**	5.50	**5.82**	10.00	**9.53**	6.31	28.31	" "
Rising Sun.....	6.80	41.00	**41.94**	5.50	**8.50**	10.00	**8.06**	6.74	27.96	" "
Taneytown.....	7.73	41.00	**42.21**	5.50	**7.35**	10.00	**9.70**	6.57	26.44	" "

A—Also detected soy bean oil meal and beet pulp, unable to detect linseed oil meal.
B—Unable to detect linseed oil meal; also detected an oat by-product.
C—Protein guarantee on sack differs from license.
D—Ingredients on sack differ from license.

MANUFACTURER AND ADDRESS	NAME OF FEED
Atlantic Trading Corp., Inc., Somerville, N. J.	Pure Skim Milk
Balto. Feed & Grain Co., Balto. Md.	BBL. Fish Meal
" " "	BBL. All Mash Laying Ration
" " "	*BBL. Mid-Day Ration
" " "	BBL. Growing Mash, with DBM. and Mins.
" " "	BBL. All Mash Growing, with DBM, Cod Liver Oil and Minerals
" " "	*BBL. Turkey Mash, with Milk Starter and Grower
" " "	BBL. Breeding Pigeon Feed, without Corn
Baugh & Sons Co., Baltimore, Md.	55% Fish Meal
G. T. Bell & Sons, Federalsburg, Md.	Pure Wheat Bran
" " "	Pure Wheat Middlings
J. P. Bennett & Sons, Mardela Springs, Md.	Best Chick Starter
" " "	Best Chick Grains
" " "	Best Intermediate Feed
Berlin Milling Co., Inc., Salisbury, Md.	Quillen Bros. Starting and Growing Mash
George W. Biles Co., Inc., Providence, Md.	Cecil County Growing Mash
" " "	Cecil County Chick Starter
" " "	Cecil County Scratch Feed
Blamberg Bros., Inc., Baltimore, Md.	Cornell Brand No. 1 Superfine Breeding Feed
Blank & Gottshall Co., Inc., Sunbury, Pa.	Laying Mash, with BM
" " "	Growing Mash, with BM.
" " "	Developing Food
" " "	*Baby Chick Mash, with BM
" " "	Chick Food Invigorator
" " "	Sunbury Scratch Grains
Bridgeville Flour & Feed Mills, Inc., Bridgeville, Del.	Del Lay Mash
Broadwater Bros., Grantsville,Md.	Laying Mash
F. W. Brode' Corp., Memphis, Tenn.	Owl Brand 41% Prime Cotton Seed Meal
" " "	Owl Brand 41% Prime Cotton Seed Meal
" " "	Owl Brand 41% Prime Cotton Seed Meal
" " "	Owl Brand 41% Prime Cotton Seed Meal
P. M. Brooks, Chestertown, Md.	Rose Bud Turkey Mash
Herbert Bryant's Son, Alexandria, Va.	*Pure Ground Fish for Poultry
C.W. Burckhalter, Inc., New York, N. Y.	Burck-Brand Powdered Skim Milk
California Hawaiian Milling Co., Inc., San Francisco, California.	‡Choice Fine Ground Alfalfa Meal

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Cambridge	.....	33.00	**34.49**	.20	x**.96**	.....	.....	7.12	.....	As declared on sack
Easton	7.35	55.00	**58.88**	6.00	**6.28**	2.00	**.88**	20.42	6.19	As declared on sack
Baltimore	7.98	15.00	**16.85**	4.00	**4.36**	4.50	**5.76**	6.87	58.18	" "
Baltimore	9.49	13.00	**13.51**	5.00	**4.06**	2.50	**3.13**	2.64	67.17	A. As decl'd on sack
Baltimore	9.52	18.00	**19.66**	4.50	**5.17**	6.50	**6.02**	7.76	51.87	As declared on sack
Pocomoke City	10.29	14.00	**14.22**	3.50	**5.30**	3.50	**2.83**	6.92	60.44	" "
Baltimore	7.93	21.00	**22.20**	5.00	**4.27**	7.00	**8.68**	11.92	45.00	" "
Baltimore	9.29	14.00	**13.25**	3.00	**2.78**	4.00	**3.37**	2.17	69.14	" "
Woodbine	6.74	55.00	**61.43**	5.00	**10.27**	3.00	**.69**	17.50	3.37	As declared on sack
Federalsburg	9.88	14.50	**15.27**	4.00	**4.24**	9.00	**9.84**	6.83	53.94	As declared on sack
Federalsburg	11.56	15.00	**15.01**	4.00	**4.04**	5.00	**3.12**	2.94	63.33	" "
Mardela Springs	10.86	17.00	**16.94**	4.00	**5.19**	7.00	**4.59**	7.32	55.10	As declared on sack
Mardela Springs	11.70	8.00	**10.88**	2.00	**2.16**	5.00	**1.41**	1.64	72.21	" "
Mardela Springs	11.37	8.00	**10.18**	2.00	**3.18**	4.00	**2.52**	2.34	70.41	" "
Salisbury	9.53	17.00	**17.99**	4.00	**5.97**	6.50	**5.94**	6.64	53.93	As declared on sack
Providence	9.95	16.00	**20.36**	4.00	**5.25**	8.00	**5.69**	8.50	50.25	As declared on sack
Providence	10.49	14.00	**16.85**	4.00	**5.53**	6.00	**2.69**	5.50	58.94	" "
Providence	12.74	10.00	**9.21**	3.00	**3.17**	7.00	**2.67**	1.88	70.33	" "
Baltimore	10.40	12.10	**12.64**	3.70	**3.64**	3.50	**2.98**	1.61	68.73	As declared on sack
Frederick	8.98	18.00	**18.95**	5.00	**5.06**	6.50	**6.92**	9.26	50.83	B.
Frederick	8.41	18.00	**17.99**	6.00	**6.16**	7.00	**5.14**	7.52	54.78	As declared on sack
Frederick	11.21	10.00	**10.71**	2.40	**2.71**	2.50	**1.88**	1.77	71.72	B.
Frederick	6.14	14.00	**14.92**	4.00	**3.25**	4.00	**3.15**	13.46	59.08	B.
Frederick	10.34	10.50	**11.06**	2.25	**3.87**	3.50	**2.22**	2.94	69.57	As declared on sack
Frederick	11.74	10.00	**10.62**	2.25	**2.36**	4.00	**2.52**	1.90	70.86	C.
Federalsburg	9.17	20.00	**21.76**	4.50	**5.74**	6.00	**5.44**	11.47	46.42	D.
Grantsville	9.45	18.00	**19.83**	5.00	**6.23**	6.00	**6.09**	8.17	50.23	As declared on sack
Barnesville	6.70	41.00	**40.19**	5.00	**6.63**	10.00	**10.04**	7.45	28.99	As declared on sack
Gaithersburg	6.73	41.00	**40.19**	5.00	**7.12**	10.00	**10.20**	7.26	28.50	" "
Taneytown	6.80	41.00	**40.98**	5.00	**7.24**	10.00	**9.74**	7.15	28.09	" "
Baltimore	7.16	41.00	**42.74**	5.00	**7.47**	10.00	**9.77**	6.35	26.51	" "
Chestertown	8.34	20.00	**22.20**	4.50	**4.87**	9.00	**5.89**	11.81	46.89	As declared on sack
Gaithersburg	6.68	58.00	**55.61**	7.00	**6.83**	1.00	**.70**	23.20	6.98	As declared on sack
Baltimore	.....	32.00	**35.45**	.75	x**2.40**	.....	.....	8.30	.....	As declared on sack
Westminster	6.98	14.00	**17.90**	2.00	**1.91**	30.00	**24.28**	10.72	38.21	As declared on sack

A—Fat guarantee on sack differs from license. B—Ingredients on sack differ from license.
C—Ingredients on sack differ from license; unable to detect sunflower seed.
D—Also detected salt.
x Fat as determined by the Roese-Gottlieb Method

Manufacturer and Address	Name of Feed
Calvary Roller Mills, Bel Air, Md.	*Pure Grain Dairy Ration
" " "	Pure Wheat Bran
" " "	Pure Wheat Middlings
Cambridge Mfg. Co., Cambridge, Md.	New-Vim Molasses Dairy Feed
" " "	New-Vim Molasses Dairy Feed
" " "	New-Vim Super Laying Mash
" " "	New-Vim Special Laying Mash
" " "	Moore's Laying Mash
" " "	Gets Em Laying Mash
" " "	New-Vim Growing Mash
" " "	New-Vim Special Growing Mash
" " "	Broiler Mash
" " "	New-Vim Turkey Growing
" " "	New-Vim Turkey Starter
" " "	New-Vim Super Chick Starter
" " "	New-Vim Scratch Feed
" " "	New-Vim Scratch Feed
Carter & Yates Milling Co., Church Hill, Md.	Pure Wheat Bran
" " "	*Pure Wheat Middlings
" " "	Red Star Turkey Mash
" " "	Red Star Chick Starter and Grower
" " "	Red Star Chick Starter and Grower
Central Chemical Co., Inc., Balto., Md.	"Gro-All" Meat Scraps 55%
" " "	"Gro-All" Meat and Bone Scraps 50%
" " "	"Gro-All" Meat and Bone Scraps 50%
" " "	"Gro-All" Meat and Bone Scraps 45%
" " "	"Gro-All" Poultry Bone Meal 20%
" " "	*"Gro-All" Steamed Bone Meal
" " "	"Gro All" Fish Meal 55%
" " "	*"Gro-All" Sweet Sixteen Dairy Ration
" " "	"Gro-All" Sweet Sixteen Dairy Ration
" " "	"Gro-All" Laying Mash
" " "	"Gro-All" Chic, Starter and Growing Mash
Chapin & Co., Hammond, Ind.	Unicorn Dairy Ration 20%
" " "	Kernels Gro-All
" " "	Kernels Start-All
Charles Town Grain & Feed Co., Charles Town, W. Va.	Over-the-top Laying Mash
Chewsville Cooperative Asso., Chewsville, Md.	Thrivont Growing Feed
" " "	Thrivont Chick Starter with BM. and Cod Liver Oil
Clark Milling Co., Berryville, Va.	Pure Wheat Bran
Commercial Milling Co., Detroit, Mich.	Extra Fancy Spring Wheat Pure Bran
" " "	Extra Fancy Standard Wheat Middlings, with G. S.

* Means deficient in protein or fat.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Bel Air	8.91	20.00	**18.25**	4.50	**5.00**	10.00	**6.98**	5.49	55.37	A.
Bel Air	9.97	13.00	**15.07**	3.50	**3.35**	10.00	**8.65**	4.45	58.51	As declared on sack
Bel Air	11.32	13.00	**14.22**	4.00	**3.99**	6.00	**2.53**	2.38	65.56	" "
Cambridge	8.67	32.00	**33.41**	4.50	**5.18**	9.00	**7.22**	9.13	36.39	As declared on sack
Cambridge	11.36	16.00	**17.74**	4.00	**3.51**	12.00	**8.93**	7.69	50.77	B.
Cambridge	9.58	20.00	**21.41**	5.00	**5.43**	7.00	**5.22**	11.86	46.50	As declared on sack
Cambridge	8.98	20.00	**21.06**	5.00	**6.51**	7.00	**5.50**	12.13	45.82	" "
Cambridge	9.58	20.00	**20.18**	5.00	**6.60**	5.00	**6.45**	11.67	45.52	" "
Cambridge	9.90	20.00	**20.07**	5.00	**6.00**	7.00	**5.98**	11.35	46.70	" "
Cambridge	7.91	15.00	**17.11**	4.00	**6.13**	6.00	**5.25**	9.66	53.94	" "
Cambridge	9.65	16.00	**17.55**	4.00	**6.15**	6.00	**5.99**	9.46	51.20	" "
Cambridge	9.06	17.00	**17.90**	4.00	**4.42**	5.00	**3.12**	7.73	57.77	" "
Cambridge	8.96	25.00	**25.89**	4.00	**4.98**	5.00	**3.35**	13.10	43.72	" "
Cambridge	8.83	20.00	**21.41**	4.00	**4.87**	5.00	**5.52**	11.30	48.07	" "
Cambridge	9.61	14.00	**16.41**	4.00	**4.77**	5.50	**4.26**	7.90	57.05	" "
Cambridge	10.58	9.00	**10.00**	3.00	**2.93**	10.00	**2.74**	1.76	71.99	" "
Cambridge	10.20	9.00	**10.00**	2.50	**2.22**	4.00	**1.92**	1.22	74.44	" "
Centreville	8.77	12.00	**13.51**	3.50	**4.11**	10.00	**9.70**	6.42	57.49	As declared on sack
Centreville	10.67	13.00	**12.81**	3.50	**2.79**	5.50	**2.71**	2.12	68.90	" "
Centreville	8.97	18.00	**20.27**	4.00	**4.50**	13.00	**7.87**	10.04	48.35	C.
Centreville	10.31	16.00	**16.50**	4.00	**3.94**	5.00	**4.06**	6.43	58.76	As declared on sack
Centreville	11.13	16.00	**17.02**	4.00	**4.44**	5.00	**4.12**	5.20	58.09	" "
Ellicott City	6.02	55.00	**56.45**	8.00	**10.01**	2.00	**1.75**	24.70	1.07	As declared on sack
Frederick	5.23	50.00	**50.46**	8.00	**10.84**	2.00	**2.12**	27.61	3.74	" "
Centreville	5.86	50.00	**50.90**	8.00	**13.05**	2.00	**1.60**	25.52	3.07	" "
Ellicott City	6.02	45.00	**45.98**	8.00	**11.50**	2.00	**1.51**	32.80	2.19	" "
Baltimore	5.42	20.00	**24.04**	2.00	**4.76**	2.00	**.52**	64.94	.32	" "
Baltimore	4.38	5.00	**6.49**	2.00	**1.47**	2.00	**.96**	87.97	.....	" "
Ellicott City	6.74	55.00	**55.72**	6.00	**10.98**	1.00	**.92**	24.36	1.28	" "
Damascus	8.98	16.00	**17.72**	4.00	**3.39**	12.00	**10.71**	8.08	51.12	D.
Damascus	9.03	16.00	**16.06**	4.00	**4.27**	12.00	**12.11**	10.29	48.24	E.
Frederick	8.40	19.00	**21.06**	4.00	**4.98**	8.00	**6.87**	9.35	49.34	As declared on sack
Damascus	9.17	18.00	**22.29**	4.00	**4.55**	6.50	**4.68**	9.50	49.81	" "
Annapolis	10.17	20.00	**20.88**	4.50	**4.73**	10.00	**7.94**	9.47	46.81	As declared on sack
Baltimore	7.69	16.00	**18.43**	3.50	**4.32**	5.50	**4.34**	6.53	58.69	" "
Baltimore	8.39	15.00	**16.85**	3.50	**3.97**	4.50	**4.49**	6.34	59.96	" "
Gapland	10.59	18.00	**18.69**	4.50	**4.02**	6.50	**6.66**	10.97	49.07	As declared on sack
Chewsville	9.47	16.00	**19.48**	4.00	**5.53**	6.00	**4.52**	8.12	52.88	As declared on sack
Chewsville	10.30	14.00	**16.32**	4.00	**6.54**	3.50	**2.69**	6.18	57.97	" "
Buckeystown	8.37	15.00	**17.55**	3.50	**3.89**	9.00	**8.86**	5.85	55.48	As declared on sack
Lonaconing	9.12	16.00	**18.34**	3.50	**4.92**	11.00	**9.21**	6.20	52.21	As declared on sack
Hagerstown	9.69	16.00	**17.99**	4.00	**4.53**	7.00	**6.21**	5.03	56.55	" "

A—Unable to detect dried grains and cottonseed meal.
B—Ingredients and fat guarantee on sack differ from license; unable to detect brewers grains; also detected alfalfa meal. C—Ingredients and fibre guarantee on sack differ from license.
D—Also detected ground flax screenings.
E—Unable to detect ground wheat, ground flax and brewers grains; also detected ground flax screenings and a cocoa by-product.

MANUFACTURER AND ADDRESS	NAME OF FEED
G. E. Conkey Co., Cleveland, Ohio.	Gecco Egg Mash, with Y-O
" " "	Gecco Growing Mash, with BM. and Y-O
" " "	Gecco Growing Grains
" " "	Gecco Growing Grains
" " "	40% Supplement Hog Feed, with Y-O
" " "	Pig and Hog Meal, with Y-O
" " "	‡Kafmeal
" " "	(The Original) Starting Feed, with BM. and Y-O
" " "	‡Turkey Starter, with BM. and Y-O
" " "	Gecco Scratch Grains
" " "	Gecco Scratch Grains
" " "	Superior Scratch Grains
" " "	Balanced Rabbit Feed, with Y-O
Consolidated By-Product Co., Phila. Pa.	Beef and Bone Scrap
" " "	Beef and Bone Scrap
" " "	Beef and Bone Scrap
Consolidated Products Co., Danville, Ill.	Dried Buttermilk
Consolidated Feed & Grain Co., Inc., Buffalo, N. Y.	Bison Dried Buttermilk
" " "	Bison Dried Buttermilk
" " "	Bison Dried Skimmilk
	Bison Dried Skimmilk
Consolidated Flour Mills Co., Wichita, Kan.	Pure Flour Middlings
Continental Feed Co., Baltimore, Md.	*50% Meat and Bone Scraps
Continental Milling & Feed Co., Ellicott City, Md.	Brewers Dried Grains
" " "	Pre Ferd Horse Feed
" " "	Polka Dot Horse Feed
" " "	Polka Dot Pig Meal
" " "	Polka Dot Developer Grains
	Polka Dot Chick Grains
Corn Products Refining Co., New York, N. Y.	Buffalo Corn Gluten Feed
Denver Alfalfa Milling & Products Co., Lamar, Colorado.	Alfalfa Meal
Derwood Mill, Derwood, Md.	Baby Chick Starter
Dewey Bros. Co., Blanchester, Ohio.	20% Dried Grains
Albert Dickinson, Co., Chicago, Ill.	Rival Egg Mash
" " "	Globe Laying Glob-ets
" " "	Globe Laying Glob-ets
" " "	Rival Starting and Growing Mash
" " "	Globe Utility Feed
" " "	Rival Poultry Scratch
" " "	Rival Chick Scratch
" " "	Pigeon Glob-ets
" " "	Pigeon Glob-ets
	All Ration Rabbit Glob-ets

‡ Not licensed at time of sale.
* Means deficient in protein or fat.

SAMPLED FROM	Moisture	PROTEIN		FAT		FIBRE		Ash	Nitrogen Free Extract	INGREDIENTS
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Baltimore	10.19	20.00	**21.32**	5.00	**6.18**	7.00	**5.21**	10.16	46.94	As declared on sack
Baltimore	9.73	18.00	**19.83**	6.00	**6.01**	7.00	**5.78**	7.96	50.69	" "
Baltimore	9.80	10.00	**10.97**	2.50	**2.93**	3.00	**1.90**	1.78	72.62	" "
Baltimore	11.87	10.00	**11.06**	2.50	**3.16**	3.00	**2.23**	1.63	70.05	" "
Hagerstown	9.83	40.00	**40.02**	5.00	**6.45**	6.00	**4.33**	16.24	23.13	" "
Hagerstown	10.21	18.00	**24.98**	3.75	**4.64**	5.50	**4.43**	8.44	47.30	A.
Hagerstown	8.49	22.00	**21.15**	3.00	**4.03**	6.75	**4.02**	5.20	50.36	As declared on sack
Baltimore	10.86	16.00	**17.72**	5.50	**5.69**	5.50	**4.10**	5.30	56.33	" "
Hagerstown	8.86	16.00	**16.23**	5.50	**5.64**	5.50	**4.21**	6.32	58.74	" "
Baltimore	12.46	9.00	**10.71**	2.00	**2.66**	3.50	**2.32**	1.39	70.46	" "
Baltimore	11.52	9.00	**10.71**	2.00	**2.40**	3.50	**2.70**	1.70	70.97	" "
Lonaconing	11.45	9.00	**9.30**	2.00	**2.61**	3.50	**1.99**	1.40	73.25	" "
Cumberland	9.64	12.50	**14.30**	3.50	**5.01**	6.00	**3.59**	2.60	64.86	" "
Providence	7.03	50.00	**51.95**	7.00	**10.75**	3.00	**2.55**	27.60	.12	As declared on sack
Denton	6.70	50.00	**51.16**	7.00	**10.91**	3.00	**2.68**	28.40	.15	" "
Denton	7.83	45.00	**45.02**	7.00	**11.76**	3.00	**2.21**	32.50	.68	" "
Cumberland	.....	30.00	**32.91**	5.50	x**9.05**	.....	.....	11.82	.....	As declared on sack
Hagerstown	.....	30.00	**32.12**	5.00	x**5.34**	.....	.....	7.80	.....	As declared on sack
Denton	.....	30.00	**30.71**	5.00	x**7.34**	.....	.....	10.82	.....	" "
Hagerstown	.....	30.00	**33.61**	.50	x**1.03**	.....	.....	7.96	.....	" "
Salisbury	.....	30.00	**34.22**	.50	x**.73**	.....	.....	7.94	.....	" "
Friendsville	10.09	16.00	**17.11**	4.00	**4.66**	6.00	**4.88**	4.00	59.26	As declared on sack
Easton	5.69	50.00	**47.83**	5.00	**10.22**	5.00	**2.02**	30.74	3.50	B.
Woodbine	7.15	20.00	**25.27**	5.00	**6.56**	14.00	**14.86**	4.25	41.91	As declared on sack
Ellicott City	10.27	9.00	**9.55**	2.00	**2.91**	14.00	**10.32**	5.39	61.56	" "
Ellicott City	10.48	8.00	**9.20**	2.00	**2.94**	14.00	**7.92**	3.29	66.17	" "
Baltimore	9.17	18.00	**20.36**	4.00	**4.49**	7.00	**6.93**	8.60	50.45	" "
Ellicott City	11.09	10.00	**10.79**	2.50	**3.69**	5.00	**2.24**	2.62	69.57	" "
Ellicott City	11.63	10.00	**10.35**	2.50	**3.08**	5.00	**1.76**	1.75	71.43	" "
Westminster	8.81	23.00	**28.08**	2.00	**2.21**	8.50	**7.76**	4.16	48.98	As declared on sack
Westminster	5.76	13.00	**14.39**	1.00	**1.69**	33.00	**27.48**	11.52	39.16	As declared on sack
Derwood	10.36	14.00	**15.09**	4.00	**4.60**	6.00	**5.24**	6.79	57.92	As declared on sack
Denton	8.50	20.00	**22.99**	6.00	**6.02**	19.00	**18.06**	3.27	41.16	As declared on sack
Fullerton	8.56	20.00	**20.27**	4.00	**5.34**	7.00	**5.01**	12.05	48.77	As declared on sack
Fullerton	8.60	18.00	**18.78**	3.50	**5.45**	7.00	**5.26**	11.22	50.69	" "
Fullerton	10.00	18.00	**19.04**	3.50	**5.54**	7.00	**5.55**	10.62	49.25	" "
Fullerton	10.53	15.00	**15.27**	3.50	**4.95**	6.50	**4.85**	8.24	56.16	" "
Fullerton	10.01	14.00	**15.36**	3.50	**3.74**	4.00	**3.67**	2.43	64.79	" "
Fullerton	11.04	10.00	**10.62**	2.50	**3.13**	5.00	**2.01**	1.71	71.49	" "
Fullerton	10.72	10.00	**11.32**	2.50	**2.64**	4.00	**1.37**	1.82	72.13	" "
Fullerton	8.36	15.00	**17.55**	3.00	**3.64**	4.00	**3.17**	8.27	59.01	" "
Fullerton	9.05	15.00	**17.64**	3.00	**3.77**	4.00	**3.60**	8.57	57.37	" "
Fullerton	7.96	13.50	**11.76**	3.50	**4.64**	11.00	**10.07**	8.73	56.84	" "

A—Fat and fibre guarantees on sack differ from license. Also detected corn gluten meal.
B—Fat and fibre guarantees on sack differ from license. Also detected fish meal.
x Fat as determined by the Roese-Gottlieb Method

MANUFACTURER AND ADDRESS	NAME OF FEED
Dietrich & Gambrill, Inc., Frederick, Md.	Frederick Laying Mash
" " "	Gambrill's Growing Mash
" " "	Gambrill's Growing Mash
" " "	All Mash Starter and Grower
" " "	All Mash Starter and Grower
" " "	Frederick Chick Feed
" " "	Turkey Mash
" " "	Gambrill's Developing Scratch
" " "	Gambrill's Developing Scratch
Wm. H. Dolbey, White Haven, Md.	Pure Wheat Bran
" " "	†Pure Wheat Middlings
Dreyer Commission Co., St. Louis, Mo.	‡Dryco Wheat Bran, with Screenings
Dryden Milling Co., Pocomoke City, Md.	Growing Mash
" " "	†Corn Feed Meal
Duluth-Superior Milling Co., Duluth, Minn.	Wheat Flour Middlings, with Ground Screen
Ezl. Dunwoody Co., Philadelphia, Pa.	Super X Fine Ground Alfalfa Meal
Eagle Mills, Pocomoke City, Md.	Hog Meal
" " "	Chick Starter
East Coast Trading Co., Baltimore, Md.	*Oberco 50% Meat and Bone Scrap
" " "	Oberco 50% Meat and Bone Scrap
" " "	Oberco 50% Meat and Bone Scrap
" " "	Pure Fish Meal
" " "	Pure Fish Meal
Eastern Grain Growers, Hagerstown, Md.	*16% Sweet Dairy Feed
" " "	‡Atlantic States Starting and Growing Mash, Open Formula
" " "	*Atlantic States Hog Feed, Open Formula
" " "	Atlantic States Hen Scratch, Open Formula
Eastern Service Corp., Cambridge, Md.	32% Dairy Ration
" " "	No. 1 Egg Mash
" " "	Starting and Growing Mash
Eastern States Farmers' Exchange, Springfield, Mass.	30 % Supplement Feed, Open Formula
" " "	Producer Mash, Open Formula
	‡Chick Grains, Open Formula
Easton Milling Co., Easton, Md.	Talbot Dairy Supplement
" " "	Talbot Laying Mash
" " "	Talbot All Mash Starting and Growing Mash, with DBM
" " "	Talbot Scratch Feed
Edwards Distributing Co., Balto., Md.	Vim and Vigor Meat Scraps
" " "	Vim and Vigor Meat Scraps

* Means deficient in protein or fat.
† Means deficient in both protein and fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Hyattsville	8.97	18.00	**19.57**	3.50	**5.38**	8.00	**6.28**	7.73	52.07	As declared on sack
Hyattsville	9.90	18.00	**20.27**	4.00	**5.50**	7.00	**4.38**	6.87	53.08	" "
Berwyn	9.57	18.00	**23.96**	4.00	**5.23**	7.00	**4.91**	6.90	49.43	A.
Baltimore	9.40	14.00	**17.11**	4.00	**4.86**	4.00	**4.12**	5.85	58.66	As declared on sack
Berwyn	10.17	14.00	**16.67**	4.00	**5.55**	4.00	**3.68**	4.43	59.50	" "
Baltimore	10.11	10.00	**10.62**	2.50	**4.54**	3.00	**1.84**	2.01	70.88	" "
Sykesville	8.18	20.00	**22.55**	4.00	**5.84**	12.00	**7.77**	11.28	44.38	" "
Baltimore	11.25	10.00	**11.58**	2.50	**4.13**	3.00	**2.02**	1.80	69.22	" "
Hyattsville	11.00	10.00	**10.97**	2.50	**3.00**	3.00	**1.96**	1.83	71.24	" "
White Haven	9.71	13.00	**14.48**	3.50	**3.66**	10.00	**6.88**	5.06	60.21	As declared on sack
White Haven	11.55	13.00	**11.93**	3.50	**2.23**	8.00	**1.69**	1.94	70.66	" "
Baltimore	8.38	14.50	**15.80**	3.50	**4.36**	10.00	**9.41**	6.90	55.15	As declared on sack
Pocomoke City	9.15	16.00	**17.72**	3.50	**4.44**	5.00	**5.08**	8.34	55.27	As declared on sack
Pocomoke City	13.38	11.00	**9.74**	5.00	**2.75**	3.50	**1.97**	1.73	70.43	" "
Frederick	10.54	15.00	**17.90**	4.00	**4.60**	6.00	**4.19**	3.16	59.61	As declared on sack
Pocomoke City	6.71	17.00	**17.55**	2.00	**1.98**	25.00	**28.54**	10.50	37.72	As declared on sack
Pocomoke City	10.36	18.00	**19.04**	4.00	**5.17**	7.00	**5.21**	7.82	52.40	B.
Pocomoke City	9.73	16.00	**17.72**	4.50	**4.42**	6.00	**3.18**	6.59	58.36	B.
Derwood	6.42	50.00	**48.88**	8.00	**11.41**	3.00	**1.59**	29.65	2.05	As declared on sack
Keedysville	6.87	50.00	**49.41**	8.00	**10.46**	3.00	**1.28**	31.94	.04	" "
Derwood	6.93	50.00	**50.28**	8.00	**11.03**	3.00	**1.52**	29.76	.48	" "
Derwood	7.28	60.00	**59.41**	5.00	**6.87**	1.00	**.70**	23.12	2.62	" "
Derwood	7.32	60.00	**61.60**	5.00	**5.26**	1.00	**.98**	19.76	5.08	" "
Hagerstown	11.65	16.00	**13.26**	3.00	**4.68**	12.00	**10.43**	6.55	53.43	As declared on sack
Hagerstown	10.17	16.00	**18.16**	4.00	**3.70**	6.00	**6.03**	6.56	55.38	C.
Hagerstown	11.03	20.00	**23.78**	5.20	**3.46**	5.00	**3.40**	8.76	49.57	As declared on sack
Hagerstown	10.68	9.00	**10.88**	2.50	**2.98**	5.00	**2.31**	1.58	71.57	" "
Cambridge	8.00	32.00	**34.28**	4.50	**5.08**	10.00	**8.36**	8.52	35.76	As declared on sack
Cambridge	9.00	18.50	**18.87**	4.00	**5.32**	7.50	**4.95**	12.92	48.94	" "
Cambridge	8.48	17.00	**18.25**	4.00	**4.26**	6.00	**4.03**	10.27	54.71	" "
Denton	10.29	30.00	**32.43**	5.00	**4.90**	8.00	**7.07**	8.40	36.91	As declared on sack
Denton	9.93	17.00	**18.16**	4.00	**5.20**	6.50	**4.73**	9.03	52.95	" "
Denton	12.19	9.50	**10.27**	2.00	**2.35**	3.00	**1.39**	1.43	72.37	" "
Easton	9.43	32.00	**32.60**	4.50	**4.42**	9.00	**7.87**	7.66	38.02	D. As decl'd on sack
Easton	10.19	19.00	**20.65**	4.50	**4.57**	8.00	**7.35**	8.14	49.10	As declared on sack
Easton	9.09	15.00	**15.27**	4.50	**4.52**	6.00	**5.56**	7.63	57.93	B.
Easton	12.72	9.00	**10.71**	3.00	**3.06**	4.00	**2.84**	1.90	68.77	As declared on sack
Westminster	5.20	55.00	**56.45**	5.00	**10.74**	3.00	**1.88**	23.40	2.33	As declared on sack
Baltimore	5.02	55.00	**55.29**	5.00	**8.13**	3.00	**2.30**	26.27	2.99	" "

A—Also detected linseed oil meal.
B—Ingredients on sack differ from license.
C—Detected ground whole oats and not ground oat groats as declared.
D—Fibre guarantee on sack differs from license.

Manufacturer and Address	Name of Feed
S. T. Edwards & Co., Inc., Chicago, Ill.	Butterfly Brand Dried Skimmed Milk
Enterprise Tallow & Grease Co., Phila. Pa.	Del-Mar-Va Brand Meat Scrap
" " "	Del-Mar-Va Brand Meat and Bone Scrap
" " "	Del-Mar-Va Brand Meat and Bone Scrap
" " "	*Del-Mar-Va Brand Meat and Bone Scrap
" " "	Del-Mar-Va Brand Meat and Bone Scrap
" " "	Del-Mar-Va Brand Meat and Bone Scrap
John W. Eshelman & Sons, Lancaster, Pa.	32% Mixing Ration
" " "	Red Rose Laying Mash
" " "	Red Rose Calf Starter
" " "	‡Red Rose Turkey Mash
" " "	Red Rose Chick Grains
" " "	Pennsy Scratch Grains
" " "	Red Rose Scratch Grains
" " "	Lancaster Pigeon Feed
" " "	Red Rose Rabbit Feed (Pelleted)
Fairchild Milling Co., Cleveland, Ohio.	Wheat Bran, with Gr. Screenings N. Ex. M. R.
" " "	Wheat Bran, with Gr. Screenings N. Ex. M. R.
" " "	Wheat Bran, with Gr. Screenings N. Ex. M. R.
" " "	Standard Middlings, with Ground Screenings N. Ex. M. R.
Fairfield Western Md. Dairy, Balto., Md.	Skim Milk Powder
Farmers' Fertilizer & Feed Co., Westminster, Md.	Favorite Pig Meal
	Favorite Scratch Feed
Farmers Supply Co., Inc., Denton, Md.	Fasuco Laying Mash
Federal Milling Co., Hagerstown, Md.	Eureka Scratch Feed
Feed-Mor Products Co., Westminster, Md.	Feed-Mor Tankage
Freihofer Flour Mills, Phila., Pa.	Wheat Bran, with Mill Run of Ground Wheat Screenings not exceeding 8%
" " "	Wheat Flour Middlings, with Mill Run of Gr. Wheat Screenings not exceeding 8%
Galesburg Milling Co., Galesburg, Ill.	‡Dependable Horse Feed
" " "	*‡Gamo Developer
" " "	Biddy's Chick Feed
Gambrill Grain Products Co., Balto., Md.	Aliceanna Laying Mash
Glade Valley Milling Co., Walkersville, Md.	Gee Vee Laying Mash
Green-Mish Co., Washington, D. C.	"Green Tag Prime" Cotton Seed Meal
Greensburg By-Products Co., Greensburg, Pa.	*Quality Meat Scraps
" " "	‡*Quality Meat Scraps
" " "	*Quality Meat Scraps

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Mt. Airy.....	.....	32.00	**32.64**	.25	x.66	.....	.....	7.04	.....	As declared on sack
Denton.....	6.15	55.00	**55.81**	10.00	**11.11**	2.00	**2.76**	24.03	.14	As declared on sack
Denton.....	6.13	50.00	**50.28**	10.00	**10.96**	2.00	**2.02**	29.40	1.21	" "
Federalsburg....	6.82	50.00	**50.46**	10.00	**10.51**	2.00	**1.87**	29.37	.97	" "
Mardela Springs.	7.46	50.00	**48.44**	10.00	**10.28**	2.00	**1.66**	30.52	1.64	" "
Denton.....	5.78	45.00	**45.28**	10.00	**11.14**	2.00	**2.10**	33.46	2.24	" "
Salisbury.....	5.45	45.00	**45.11**	10.00	**11.28**	2.00	**2.12**	34.28	1.76	" "
Snow Hill	8.98	32.00	**32.39**	4.50	**4.42**	9.00	**6.90**	8.86	38.45	As declared on sack
Hyattsville	9.33	20.00	**20.45**	5.00	**5.84**	7.00	**6.24**	7.88	50.26	" "
Snow Hill.....	8.24	18.00	**23.25**	3.00	**4.76**	5.00	**4.34**	4.13	55.28	" "
Baltimore.....	8.38	18.00	**19.66**	4.50	**5.92**	7.00	**6.79**	7.86	51.39	" "
Baltimore.....	11.93	10.00	**11.34**	3.00	**3.68**	3.00	**1.86**	1.84	69.35	" "
Annapolis.....	12.11	9.00	**10.53**	2.50	**3.03**	4.00	**2.94**	2.38	69.01	" "
Baltimore.....	11.43	10.00	**10.62**	2.50	**3.22**	4.00	**2.83**	1.47	70.43	" "
Baltimore.....	10.77	12.00	**14.57**	3.00	**3.25**	3.00	**3.84**	2.44	65.13	" "
Baltimore.....	8.36	12.00	**17.02**	3.50	**3.68**	9.50	**5.67**	5.46	59.81	" "
Baltimore.....	9.60	14.00	**17.81**	3.50	**4.85**	12.00	**9.36**	6.34	52.04	As declared on sack
Frederick.....	9.93	14.00	**16.67**	3.50	**4.79**	12.00	**10.33**	6.64	51.64	" "
Baltimore.....	8.88	14.00	**17.02**	3.50	**4.77**	12.00	**9.86**	6.71	52.76	" "
Baltimore.....	10.34	15.00	**18.87**	4.00	**5.50**	9.00	**6.96**	5.31	53.02	" "
Baltimore.....	.....	33.00	**35.10**	.50	x**1.85**	.....	.....	8.16	.....	As declared on sack
Westminster....	7.87	18.00	**18.25**	5.00	**7.09**	10.00	**7.48**	7.41	51.90	A.
Westminster....	11.28	10.00	**10.71**	3.00	**3.62**	4.00	**2.63**	1.23	70.53	As declared on sack
Denton.....	7.83	20.00	**21.24**	5.00	**4.96**	8.00	**6.15**	11.85	47.97	As declared on sack
Hagerstown.....	11.23	10.00	**10.88**	2.50	**2.53**	5.00	**1.44**	1.77	72.15	As declared on sack
Hampstead.....	4.46	35.00	**37.12**	5.00	**24.24**	2.50	**3.73**	18.41	12.04	B.
Baltimore.....	8.56	16.00	**17.20**	4.00	**4.10**	11.00	**8.69**	6.95	54.50	As declared on sack
Baltimore.....	9.15	16.00	**17.72**	4.00	**4.31**	6.00	**3.24**	4.62	60.96	" "
Baltimore.....	12.07	10.50	**11.08**	3.00	**3.00**	11.50	**9.61**	4.98	59.26	As declared on sack
Baltimore.....	9.39	10.00	**11.06**	3.50	**2.53**	4.00	**2.37**	1.79	72.86	C. As decl'd on sack
Baltimore.....	10.79	10.00	**11.67**	3.00	**3.14**	3.00	**1.99**	1.87	70.54	As declared on sack
Baltimore.....	8.53	20.00	**20.80**	3.50	**4.97**	8.00	**6.24**	6.98	52.48	D.
Walkersville	9.95	20.00	**22.64**	5.00	**5.43**	6.00	**4.42**	9.27	48.29	As declared on sack
Rising Sun.....	7.35	41.00	**43.44**	6.00	**7.44**	10.00	**8.06**	7.44	26.27	As declared on sack
Grantsville.....	7.29	55.13	**60.34**	13.46	**11.44**	1.39	**1.77**	26.60	.....	As declared on sack
Grantsville.....	5.25	55.13	**49.62**	13.46	**14.29**	1.39	**1.53**	28.23	1.08	E.
Cumberland	6.41	55.13	**56.51**	13.46	**10.72**	1.39	**1.53**	24.23	.60	As declared on sack

A—Also detected fine ground oats. B—Also detected vegetable fibrous material.
C—Fat and fibre guarantees on sack differ from license.
D—Ingredients on sack differ from license; unable to detect gluten meal.
E—Should be designated as meat and bone scrap.
x Fat as determined by the Roese-Gottlieb Method.

MANUFACTURER AND ADDRESS	NAME OF FEED
Griffith Feed Co., Silver Spring, Md.	‡High Grade Egg Mash
Hales & Hunter Co., Chicago, Ill.	‡Gold Flake Dairy Feed
" " "	Red Comb Growing Mash, with DBM
" " "	‡College Horse Feed
" " "	Kingfalfa Horse Feed
" " "	Red Comb Chick Starter, with DBM
" " "	Red Comb Chick Starter, with DBM
" " "	Red Comb Chick Starter, with DBM
" " "	Red Comb Fine Chick
" " "	Red Comb Fine Chick
" " "	Red Comb Coarse Chick
" " "	‡Red Comb Coarse Chick
" " "	Lehigh Packing Rabbit Breeder Feed
T. A. Hauschel, Chicago, Ill.	Brewers' Dried Grains
Hecker-H-O Co., Inc., Buffalo, N.Y.	Fine Ground Oat Groats
Hecker-Jones-Jewell Milling Co., Div. Of Standard Milling Co., Buffalo, N.Y.	‡Wheat Standard Middlings, with Ground Screenings N. Ex. M. R.
Samuel J. Heiney & Sons, Allentown, Pa.	Hei-Son Baby Chick Food
Hespenheide & Thompson, York, Pa.	Premier Gr. Mash, with BM. and Cod Liver Oil
" " "	Premier Gr. Mash, with BM. and Cod Liver Oil
" " "	Premier Pig and Hog Meal
" " "	Premier Baby Chick Starter, with Cod Liver Oil
" " "	Premier Baby Chick Starter, with Cod Liver Oil
" " "	York Scratch Feed
Hubbard Milling Co., Pittsburgh, Pa.	Fancy Pure Mother Hubbard Wheat Bran
" " "	Standard Mother Hubbard Wheat Fine Middlings, with Screenings
	Sunshine Scratch Feed
Humphreys-Godwin Co., Memphis, Tenn.	Dixie Brand 41% Protein Cotton Seed Meal
" " "	Dixie Brand 41% Protein Cotton Seed Meal
Huston, Culver & Co., Seaford, Del.	Fish Meal
" " "	Fish Meal
Igleheart Bros., Inc., Evansville, Ind.	Wheat Bran
Ingleside Milling Co., Ingleside, Md.	Turkey Mash
International Vegetable Oil Co., Inc., Memphis, Tenn.	High Grade Cotton Seed Meal
	High Grade Cotton Sede Meal
R. D. Johnson Millin Co., Cumberland, Md.	Atlas Stock Feed
Kansas Flour Mills Corp., Kansas City, Mo.	Big Flake Pure Wheat Bran

‡ Not licensed at time of sale.

SAMPLED FROM	Moisture	PROTEIN		FAT		FIBRE		Ash	Nitrogen Free Extract	INGREDIENTS
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Silver Spring....	9.14	20.00	**20.36**	4.50	**5.96**	7.00	**5.98**	8.40	50.52	As declared on sack
Walkersville....	8.34	16.00	**17.94**	3.00	**3.11**	15.00	**12.05**	10.22	48.34	A.
Annapolis.....	8.98	15.00	**18.25**	4.00	**4.45**	6.00	**6.21**	10.58	51.53	As declared on sack
Oakland.....	11.83	9.00	**10.44**	2.50	**3.52**	10.00	**6.39**	3.33	64.49	" "
Annapolis.....	11.33	9.00	**13.10**	2.00	**3.01**	15.00	**10.35**	5.30	56.91	" "
Annapolis.....	9.26	15.00	**16.67**	4.00	**4.80**	5.00	**4.68**	7.53	57.06	" "
Walkersville....	10.06	15.00	**17.29**	4.00	**4.09**	5.00	**4.13**	7.06	57.37	" "
Baltimore.....	9.92	15.00	**19.57**	4.00	**5.15**	5.00	**5.22**	8.05	52.09	" "
Annapolis.....	10.40	10.00	**11.06**	2.50	**3.01**	5.00	**1.69**	1.68	72.16	" "
Baltimore.....	10.86	10.00	**11.06**	2.50	**2.86**	5.00	**1.54**	1.63	72.05	" "
Annapolis.....	12.34	10.00	**10.09**	2.50	**3.19**	5.00	**2.67**	2.12	69.59	" "
Baltimore.....	10.91	10.00	**11.58**	2.50	**3.04**	5.00	**2.59**	1.89	69.99	" "
Baltimore.....	10.11	12.00	**11.68**	2.00	**2.44**	20.00	**11.15**	7.61	57.01	A.
Germantown....	7.68	21.00	**22.82**	6.00	**5.78**	18.00	**16.02**	4.09	43.61	As declared on sack
Hagerstown.....	7.49	14.00	**15.01**	5.00	**6.01**	2.00	**.88**	2.20	68.41	As declared on sack
Baltimore.....	7.85	15.00	**18.69**	4.75	**5.74**	9.50	**8.03**	4.60	55.09	As declared on sack
Baltimore.....	6.73	13.00	**16.06**	4.00	**4.66**	7.50	**4.85**	5.83	61.87	As declared on sack
Parkton.....	10.82	17.00	**18.08**	4.50	**4.44**	7.00	**4.65**	7.74	54.27	A.
Melrose.....	9.54	17.00	**18.69**	4.50	**5.39**	7.00	**4.64**	7.00	54.74	As declared on sack
Parkton.....	10.30	16.00	**17.02**	4.00	**3.57**	7.00	**4.84**	10.02	54.25	" "
Parkton.....	9.13	16.00	**18.95**	4.00	**5.53**	4.00	**3.53**	8.21	54.65	B.
Melrose.....	8.81	16.00	**19.92**	4.00	**5.74**	4.00	**3.51**	6.70	55.32	A.
Glyndon.....	11.06	9.00	**10.62**	3.00	**3.14**	5.00	**2.85**	1.70	70.63	As declared on sack
Cumberland....	9.75	15.00	**17.02**	5.00	**5.13**	9.00	**8.93**	6.60	52.57	C. As decl'd on sack
Cumberland....	8.98	15.50	**17.90**	5.00	**5.25**	9.50	**8.61**	4.78	54.48	As declared on sack
Cumberland....	11.11	9.00	**10.09**	2.50	**2.50**	5.00	**2.53**	1.07	72.70	D.
Westminster....	7.47	41.00	**41.42**	5.00	**7.73**	12.00	**7.72**	7.46	28.20	As declared on sack
Westminster....	7.90	41.00	**41.24**	5.00	**7.75**	12.00	**9.37**	6.92	26.82	" "
Cambridge.....	7.93	55.00	**58.09**	4.00	**6.39**	1.00	**.76**	19.28	7.55	As declared on sack
Cambridge.....	8.22	55.00	**61.08**	4.00	**4.35**	1.00	**1.36**	19.66	5.33	" "
Pocomoke City..	9.75	13.00	**14.83**	3.00	**3.69**	12.00	**10.54**	7.28	53.91	As declared on sack
Goldsboro.....	8.26	20.00	**23.69**	4.50	**5.24**	10.00	**8.02**	12.90	41.89	As declared on sack
Ellicott City....	6.70	41.00	**40.81**	6.00	**6.09**	10.00	**11.74**	5.80	28.86	As declared on sack
Baltimore.....	5.57	41.00	**40.37**	6.00	**6.69**	10.00	**10.71**	5.95	30.71	" "
Cumberland....	9.14	9.00	**10.53**	3.00	**5.64**	12.00	**10.49**	6.10	58.10	E.
Friendsville.....	9.67	15.00	**16.67**	3.50	**4.37**	11.00	**8.35**	6.40	54.54	As declared on sack

A—Ingredients on sack differ from license.
B—Ingredients on sack differ from license; also detected wheat bran.
C—Protein guarantee on sack differs from license.
D—Ingredients on sack differ from license; also detected Kaffir corn.
E—Also detected ground wheat and weed seeds.

Manufacturer and Address	Name of Feed
Kasco Mills, Inc., Waverly, N. Y.	‡Kasco 20% Milk Maker
" " "	‡Apex Complete Growing Mash
" " "	‡Kasco Growing Grains
" " "	‡Kasco Broiler Ration
" " "	‡Kasco Poultry Flushing Mash
" " "	Apex All-Mash Starter and Grower
" " "	Apex All-Mash Starter and Grower
" " "	‡OC-Sak Chick Grains
Keedysville Milling Co., Keedysville, Md.	Eureka Growing Mash
" " "	Eureka Starting Mash
" " "	Wheat Bran
" " "	*Wheat Middlings
Key Grain & Feed Co., Keymar, Md.	The Key Pig Meal
" " "	Pure Corn Meal
" " "	The Key Scratch Grains
King Bros. & Co., Philadelphia, Pa.	Alfalfa Leaf Meal
King Midas Mill Co., Minneapolis, Minn.	Wheat Standard Middlings and Ground Wheat Screenings
Chas. F. Knock, Frederick, Md.	Growing Mash, with BM.
Kraft-Phenix Cheese Corp., Chicago, Ill.	"Kraco" Milk Sugar Feed
Chas. A. Krause Milling Co., Milwaukee, Wis.	Badger 16% Sweet Dairy
" " "	Blue Top Egg Mash
" " "	Blue Top Chick Feed
	Blue Top Scratch Feed N. G.
La Grange Mills, Red Wing, Minn.	Pure Fancy Coarse Wheat Bran
" " "	Pure Wheat Flour Middlings
Lakeview Milling Co., Chambersburg, Pa.	Soft Winter Wheat Middlings
Land O'Lakes Creameries, Inc., Minneapolis, Minn.	*Dried Buttermilk
Larrowe Milling Co., Detroit, Mich.	Larro Growing Mash
" " "	Larro Growing Grains
" " "	Larro Broiler Feed
" " "	Larro Broiler Feed
" " "	Larro Calf Meal
" " "	Larro Pork-Maker
" " "	Larro Pork-Maker
" " "	Larro Turkey and Game Bird Starter
" " "	Larro Turkey and Game Bird Adult Mash
" " "	Larro Chick Starter
" " "	Larro Chick Grains
" " "	Larro Scratch Grains

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Oakland	10.09	20.00	**22.14**	4.50	**4.59**	11.00	**7.79**	7.06	48.33	As declared on sack
Maple Grove	11.16	14.00	**15.88**	4.00	**4.88**	8.50	**4.76**	6.02	57.30	" "
Oakland	10.45	10.00	**11.14**	2.50	**3.94**	4.00	**2.22**	1.70	70.55	" "
Oakland	8.74	20.00	**20.53**	4.00	**5.71**	5.50	**5.05**	11.60	48.37	" "
Oakland	6.77	17.00	**17.46**	4.00	**4.64**	5.50	**4.45**	9.27	57.46	" "
Oakland	8.19	15.00	**21.91**	4.00	**5.08**	6.00	**5.47**	9.80	49.55	" "
Oakland	8.90	15.00	**15.80**	4.00	**4.80**	6.00	**4.73**	6.20	59.57	" "
Oakland	10.65	9.00	**10.88**	2.50	**4.58**	3.50	**1.84**	1.46	70.59	" "
Keekysville	9.37	17.50	**17.99**	5.00	**5.43**	5.00	**4.13**	5.56	57.52	As declared on sack
Keedysville	9.63	17.00	**17.02**	5.00	**5.34**	5.50	**4.61**	5.33	58.07	" "
Keedysville	10.11	13.50	**18.69**	3.25	**3.67**	8.35	**7.94**	5.72	53.87	" "
Keedysville	11.67	14.00	**15.09**	3.50	**1.96**	3.25	**1.10**	1.46	68.72	" "
Detour	8.53	17.00	**18.25**	4.50	**4.73**	7.00	**5.36**	8.64	54.49	A. As decl'd on sack
Keymar	10.61	9.00	**9.39**	4.00	**4.78**	3.00	**2.04**	1.50	71.68	As declared on sack
Keymar	10.43	10.00	**10.71**	2.75	**3.77**	4.00	**2.17**	1.45	71.47	" "
Denton	7.78	20.00	**25.45**	2.00	**2.14**	18.00	**14.60**	11.71	38.32	As declared on sack
Baltimore	10.32	15.00	**17.81**	4.00	**5.27**	9.50	**8.94**	4.53	53.13	As declared on sack
Frederick	10.14	15.00	**14.92**	4.00	**5.16**	10.00	**2.76**	3.90	63.12	B.
Baltimore	.....	12.00	**12.11**	.50	x**2.64**	.....	.....	8.32	.....	As declared on sack
Hampstead	10.85	16.00	**18.48**	4.00	**4.56**	13.00	**10.75**	7.45	47.91	As declared on sack
Hampstead	9.29	20.00	**20.01**	4.00	**5.52**	7.50	**3.42**	8.40	53.36	" "
Hampstead	12.95	10.00	**10.62**	2.50	**2.31**	5.00	**1.35**	1.33	71.44	" "
Hampstead	11.56	10.00	**10.71**	2.50	**2.89**	5.00	**2.53**	1.89	70.42	B.
Rising Sun	11.25	14.00	**17.81**	5.00	**5.17**	12.00	**9.93**	6.64	49.20	As declared on sack
Rising Sun	9.89	16.00	**18.87**	4.00	**4.05**	4.50	**3.84**	3.76	59.59	" "
Smithsburg	10.09	15.00	**17.99**	4.00	**4.21**	7.00	**4.51**	3.97	59.23	As declared on sack
Baltimore	.....	30.00	**32.82**	5.00	x**2.45**	.....	.....	8.10	.....	C.
Baltimore	8.60	16.00	**17.90**	4.50	**5.61**	6.50	**5.84**	9.02	53.03	As declared on sack
Baltimore	11.05	10.00	**11.50**	2.00	**3.02**	3.50	**1.95**	1.42	71.06	" "
Baltimore	9.30	15.00	**16.50**	4.50	**4.73**	7.00	**5.33**	8.66	55.48	" "
Laurel	7.03	15.00	**17.99**	4.50	**5.10**	7.00	**6.24**	9.87	53.77	" "
Annapolis	8.74	23.00	**25.27**	4.00	**4.54**	3.50	**3.41**	5.59	52.45	" "
Baltimore	7.79	25.00	**26.59**	5.00	**5.77**	10.00	**9.05**	13.90	36.90	" "
Annapolis	8.67	25.00	**27.20**	5.00	**6.15**	10.00	**8.71**	14.12	35.15	" "
Baltimore	9.01	20.00	**20.01**	4.50	**4.78**	6.00	**4.98**	9.64	51.58	" "
Baltimore	9.39	18.00	**17.81**	4.50	**4.68**	7.00	**5.63**	10.06	52.43	" "
Baltimore	9.92	16.50	**17.11**	4.50	**4.92**	5.00	**3.93**	7.43	56.69	" "
Baltimore	12.73	10.00	**11.06**	2.00	**1.98**	3.50	**1.50**	1.32	71.41	" "
Baltimore	12.92	10.00	**10.53**	2.00	**2.62**	3.50	**2.18**	1.56	70.19	" "

A—Fat guarantee on sack differs from license.
B—Ingredients on sack differ from license.
C—Misbranded, product dried skim milk instead of dried buttermilk.
x Fat as determined by the Roese-Gottlieb Method.

MANUFACTURER AND ADDRESS	NAME OF FEED
Liberty Milling Co., Germantown, Md.	Growing Mash
Linwood Elevator Co., Inc., Linwood, Md.	Pigeon Feed
L. B. Lovitt & Co., Memphis, Tenn.	"Lovit Brand" 41% Cotton Seed Meal
" " "	"Lovit Brand" 41% Cotton Seed Meal
" " "	"Lovit Brand" 43% Cotton Seed Meal
Maine Fish Meal Co., Portland, Maine.	‡Sardine Maine Fish Meal
Marianna Sales Co., Memphis, Tenn.	White Mule Brand 41% Cotton Seed Meal
Maritime Milling Co., Inc., Buffalo, N. Y.	B-B. Hi-Test Dairy Feed 24% Sweetened
" " "	†B-B. Turkey Starting and Growing Feed Vitamized with Cod Liver Oil
" " "	B-B. Daisy Chick Feed
" " "	B-B. Chick Feed
" " "	*B-B. Pigeon Feed
" " "	‡B-B. Rabbit Feed (Pellets) Vitamized with Cod Liver Oil and DBM
Henry Mesner & Son, Baltimore, Md.	E-Z-Fed Dairy Feed
" " "	‡E-Z-Fed Growing Mash, with BM., Cod Liver Oil and Minerals
" " "	‡E-Z Fed Baby Chick Starter, with BM., Cod Liver Oil and Minerals
" " "	‡E-Z-Fed Baby Chick Feed
Midland Flour Milling Co., Kansas City, Mo.	Town Crier Pure Bran
Morten Milling Co., Dallas, Texas.	Wheat Bran and Screenings containing not more than 6% Ground Wheat Screenings
Mt. Airy Milling Co., Mt. Airy, Md.	Husky Growing Mash
National Cotton Seed Products Corp., Memphis, Tenn.	Star Brand Cottonseed Meal
	Star Brand Cottonseed Meal
Newsome Feed & Grain Co., Pittsburgh, Pa.	Palmo Midds
Northwestern Consolidated Milling Co., Minneapolis, Minn.	Wheat Standard Middlings, with Ground Screenings
Northwestern Elevator & Mill Co., Toledo, Ohio.	Taylor's Pure Wheat Bran
" " "	Taylor's Wheat Middlings, with Ground Screenings N. Ex. M. R.
	Taylor's Wheat Middlings, with Ground Screenings N. Ex. M. R.
Norton & Co., Washington, D. C.	Meat and Bone Scrap
" " "	Meat and Bone Scrap

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Germantown....	8.79	18.00	**18.95**	4.00	**5.33**	6.50	**5.89**	10.50	50.54	As declared on sack
Linwood.....	11.46	14.00	**14.04**	2.50	**3.62**	5.00	**3.96**	2.16	64.76	As declared on sack
Hagerstown.....	7.10	41.00	**41.94**	6.00	**6.31**	10.00	**9.07**	8.24	27.34	As declared on sack
Linwood.....	7.52	41.00	**42.12**	6.00	**8.07**	10.00	**8.92**	6.50	26.87	" "
Derwood.....	6.03	43.00	**43.00**	6.00	**6.52**	10.00	**8.56**	7.20	28.69	" "
Denton.....	9.03	55.00	**55.46**	1.00	**16.23**	1.00	**.66**	18.41	.21	A.
Cambridge.....	5.92	41.00	**42.21**	6.00	**7.41**	10.00	**9.87**	7.60	26.99	As declared on sack
White Hall	10.07	24.00	**23.95**	4.50	**4.08**	12.00	**8.98**	7.70	45.22	As declared on sack
Cooksville.....	10.40	16.00	**16.32**	4.00	**5.29**	7.00	**4.57**	8.96	54.46	" "
Baltimore.....	12.72	10.00	**11.23**	2.00	**1.98**	4.00	**1.51**	1.09	71.47	" "
Baltimore.....	12.90	11.00	**11.41**	2.50	**2.50**	4.00	**3.22**	1.31	68.66	" "
Baltimore.....	10.61	11.00	**15.09**	4.00	**2.49**	4.00	**4.25**	2.35	65.21	" "
Baltimore.....	8.65	12.00	**16.32**	2.50	**4.40**	12.00	**6.82**	5.91	57.90	" "
Baltimore.....	7.39	20.00	**21.41**	4.00	**5.14**	12.00	**7.97**	8.65	49.44	As declared on sack
Baltimore.....	11.56	16.00	**17.55**	4.50	**5.07**	6.50	**7.01**	10.58	48.23	" "
Baltimore.....	9.49	14.00	**14.22**	4.00	**4.81**	5.00	**3.82**	6.27	61.39	" "
Baltimore.....	9.54	10.00	**11.41**	2.50	**4.88**	5.00	**1.91**	2.17	70.09	" "
Derwood.....	11.71	16.00	**16.67**	3.50	**4.82**	10.00	**9.55**	7.24	50.01	As declared on sack
Baltimore.....	9.94	14.50	**16.85**	4.00	**4.23**	10.00	**9.07**	6.04	53.87	As declared on sack
Mt. Airy.....	8.76	18.00	**21.06**	4.00	**5.27**	7.00	**5.89**	9.45	49.57	As declared on sack
Middleburg.....	7.31	41.00	**41.77**	5.50	**6.49**	10.00	**9.30**	7.02	28.11	As declared on sack
Providence.....	7.37	41.00	**41.51**	5.50	**6.83**	10.00	**10.70**	6.50	27.09	" "
Gaithersburg....	6.32	16.00	**16.15**	7.00	**9.30**	9.00	**5.97**	5.05	57.21	As declared on sack
Cumberland	8.91	15.00	**16.85**	4.00	**5.21**	9.50	**9.81**	4.73	54.49	As declared on sack
Mardela Springs.	9.14	14.00	**15.36**	3.00	**3.57**	10.00	**10.50**	6.87	54.56	As declared on sack
Mardela Springs.	8.82	16.00	**17.81**	4.00	**4.56**	8.00	**5.83**	4.28	58.70	" "
Baltimore.....	10.46	16.00	**16.94**	4.00	**4.49**	8.00	**6.20**	4.30	57.61	" "
Hyattsville	6.05	50.00	**49.93**	10.00	**13.74**	2.00	**1.97**	26.40	1.91	As declared on sack
Hyattsville	6.29	50.00	**49.93**	10.00	**13.19**	2.00	**2.03**	25.92	2.64	" "

A—Also detected 5.77% salt.

MANUFACTURER AND ADDRESS	NAME OF FEED
Nowak Milling Corp., Hammond, Ind.	*Domino 24½% Dairy Feed
" " "	Domino Laying Mash, with BM
" " "	Domino Egg Pel-ets
" " "	Domino Worm-ets for Poultry
" " "	Domino Crate Fattener, with BM
" " "	Domino Growing Pel-ets
" " "	Domino Growing Pel-ets
" " "	Domino Duo-fold Pel-ets
" " "	Domino Chick Starter, with BM
" " "	Marathon Chick Feed
" " "	Domino Chick Pel-ets
" " "	Domino Growing and Fattening Turk-ets
" " "	Domino Starting Turk-ets
" " "	Domino Starting Turk-ets
" " "	Fidelity Scratch Feed
" " "	Marathon Scratch Feed
" " "	Domino Pigeon-ets
" " "	Domino Pigeon-ets
" " "	Domino All-In-One Rab-ets
Nuttle Milling Co., Denton, Md.	*Ideal Hog Feed
Geo. F. Obrecht Co., Baltimore, Md.	Laying Mash
" " "	Laying Mash
" " "	Chick Feed
P. Fred'k. Obrecht & Son, Balto. Md.	Dairy Ration
" " "	‡Dairy Ration
" " "	Laying Mash, with DBM
" " "	‡Laying Mash, DBM
" " "	Growing Mash, with DBM
" " "	‡Growing Mash, with DBM
" " "	‡Horse Feed
" " "	Starting Chick, with BM
" " "	‡Chick Grains
" " "	‡Scratch Feed
Omaha Flour Mills Co., Omaha, Neb.	‡Omaha Pure Wheat Bran
" " "	‡Omaha Wheat Flour Middlings and Ground Wheat Screenings
Owings Bros., York, Pa.	16% Dairy Feed
" " "	June Bug Baby Chick Starter
" " "	‡*June Bug Chick Feed
" " "	June Bug Scratch Feed
Park & Pollard Co., Buffalo, N. Y.	Milk-Maid 24% Sweetened Dairy Ration
" " "	Lay or Bust Dry-Mash
" " "	Red Ribbon Scratch Feed
Pecos Valley Alfalfa Mill Co., Hagerman, New Mexico.	Alfalfa Meal

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	Found	Guaranteed	Found	Guaranteed	Found			
Berwyn	8.11	24.50	**23.88**	5.00	**4.17**	10.00	**8.13**	10.23	45.48	A.
Baltimore	7.58	20.00	**20.18**	4.50	**5.59**	8.00	**6.69**	13.02	46.94	As declared on sack
Berwyn	10.19	20.00	**20.53**	4.50	**5.78**	7.50	**6.03**	8.76	48.71	" "
Sykesville	8.61	20.00	**21.06**	4.50	**6.96**	8.00	**5.62**	9.35	48.40	" "
Baltimore	8.64	15.00	**17.02**	4.50	**5.12**	6.00	**5.78**	8.17	55.27	" "
Baltimore	9.14	15.00	**17.02**	4.50	**5.72**	5.50	**5.21**	6.59	56.32	" "
Berwyn	8.99	15.00	**18.52**	4.50	**5.99**	5.50	**5.73**	6.91	53.86	" "
Sykesville	9.15	15.00	**19.04**	4.50	**6.41**	6.50	**5.58**	8.25	51.57	" "
Baltimore	8.05	20.00	**20.01**	4.50	**4.75**	6.00	**5.43**	6.28	55.48	" "
Baltimore	10.52	10.00	**10.00**	2.00	**2.37**	3.00	**1.53**	1.47	74.11	" "
Berwyn	8.97	16.00	**18.16**	4.00	**5.75**	5.00	**5.18**	7.92	54.02	" "
Ellicott City	7.82	17.00	**17.99**	4.00	**5.96**	8.00	**7.23**	9.00	52.00	" "
Sykesville	7.82	18.00	**19.92**	4.00	**5.84**	7.00	**6.25**	9.68	50.49	" "
Berwyn	7.70	18.00	**20.53**	4.00	**6.15**	7.00	**6.76**	9.36	49.50	" "
Baltimore	11.39	10.00	**11.41**	2.00	**2.13**	4.00	**2.37**	1.55	71.15	" "
Sykesville	12.52	9.00	**10.62**	2.00	**2.21**	5.00	**2.21**	1.76	70.68	" "
Baltimore	8.79	14.50	**17.64**	3.50	**4.60**	3.00	**2.92**	6.34	59.71	" "
Berwyn	10.26	14.50	**17.20**	3.50	**3.76**	3.00	**1.95**	6.06	60.77	" "
Baltimore	8.30	12.00	**12.46**	3.00	**3.24**	16.50	**15.18**	7.96	52.86	" "
Denton	11.08	12.00	**14.22**	5.00	**3.97**	6.00	**4.44**	7.09	59.20	B.
Baltimore	9.67	20.00	**21.94**	4.00	**4.77**	7.00	**6.76**	10.88	45.98	D.
White Hall	8.83	20.00	**19.48**	4.00	**4.67**	7.00	**6.23**	13.53	47.26	D.
Baltimore	10.74	10.00	**11.06**	2.00	**4.23**	5.00	**2.31**	1.82	69.84	C.
Baltimore	8.07	24.00	**24.04**	3.50	**4.61**	12.00	**9.98**	7.32	45.98	E.
Baltimore	7.07	24.00	**24.83**	3.50	**5.22**	12.00	**9.27**	7.38	46.23	F.
Baltimore	10.57	20.00	**20.01**	4.00	**5.44**	8.00	**6.25**	7.47	50.26	G.
Baltimore	8.26	20.00	**22.20**	4.00	**5.12**	8.00	**7.49**	7.92	49.01	G.
Baltimore	8.49	18.00	**20.71**	3.50	**5.00**	8.00	**5.30**	5.97	54.53	D.
Baltimore	8.12	18.00	**24.13**	3.50	**6.35**	8.00	**6.07**	8.15	47.18	D.
Baltimore	10.39	9.00	**12.44**	3.00	**3.13**	9.00	**10.23**	5.19	58.62	As declared on sack
Baltimore	8.52	14.00	**17.90**	4.00	**4.38**	5.00	**8.65**	5.70	54.85	H.
Baltimore	10.22	9.00	**14.04**	2.00	**5.12**	4.00	**2.78**	2.80	65.04	I.
Baltimore	10.75	9.00	**10.79**	2.00	**2.26**	4.00	**2.22**	1.65	72.33	As declared on sack
Taneytown	10.67	15.00	**17.38**	3.50	**4.22**	11.00	**9.25**	5.98	52.50	As declared on sack
Chestertown	9.27	15.50	**16.94**	3.20	**3.73**	7.00	**5.32**	4.25	60.49	" "
Baltimore	8.37	16.00	**18.67**	3.00	**3.84**	12.00	**11.27**	8.25	49.60	J.
Baltimore	8.74	14.00	**17.29**	4.00	**3.98**	4.00	**3.13**	4.67	62.19	As declared on sack
Baltimore	9.82	10.00	**11.14**	3.00	**1.89**	3.00	**1.18**	2.37	73.60	" "
Baltimore	9.98	9.00	**10.88**	3.00	**3.32**	4.00	**3.10**	2.73	69.99	" "
Pocomoke City	11.20	24.00	**23.80**	4.50	**4.28**	11.00	**7.63**	7.65	45.44	As declared on sack
Frostburg	9.97	18.00	**18.43**	3.00	**4.24**	7.00	**6.02**	10.85	50.49	" "
Frostburg	11.24	10.00	**10.53**	3.00	**3.12**	5.00	**2.82**	2.93	69.36	K.
Centreville	9.88	13.00	**12.55**	1.50	**1.83**	33.00	**32.70**	8.20	34.84	As declared on sack

A—Also detected ground Kaffiir corn and/or milo maize, ground wheat, whole buckwheat and trace of ground millet.
B—Also detected ground wheat.
C—Pinhead oats declared, cut hulled oats found.
D—Ingredients on sack differ from license.
E—Ingredients on sack differ from license; unable to detect soy bean oil meal and copra meal.
F—Unable to detect soy bean oil meal. Ingredients on sack differ from license.
G—Also detected peanut meal. Alfalfa meal present and not alfalfa leaf meal as declared.
H—Ingredients on sack differ from license; unable to detect corn gluten feed.
I—Unable to detect steel cut oats. Very poor grade of millet used. Appears to be millet screenings and not millet as usually found.
J—Also detected ground screenings.
K—Unable to detect sunflower seed.

Manufacturer and Address	Name of Feed
Penick & Ford Ltd., Inc., Cedar Rapids, Ia.	Douglas Corn Gluten Feed
Perkins OilCo., Memphis, Tenn.	Golden Rod Brand Cotton Seed Meal
" " "	Golden Rod Brand Cotton Seed Meal
Phoenix Flour Mills, Davenport, Iowa.	Hard Wheat Standard Middlings, M. R.
	Ground Wheat Screenings
Pillsbury Flour Mills Co., Minneapolis, Minnesota.	Hard Wheat Bran and Screenings
Pittsburgh Melting Co., Pittsburgh, Pa.	Steel City Meat and Bone Scrap
Pratt Food Co., Inc., Buffalo, N. Y.	Sweet 16% Dairy Feed
" " "	Cak-Cak Egg Mash
" " "	Horse Feed
" " "	Oat Feed
" " "	Pigeon Feed, No Corn
" " "	Chick Scratch Feed
" " "	Chick Scratch Feed
" " "	Circle A. Large Scratch Feed
Quaker Oats Co., Chicago, Ill.	Ful-O-Pep Growing Mash
" " "	Ful-O-Pep Turkey Starter
" " "	Ful-O-Pep Turkey Grower
Quisenberry Feed Mfg. Co., Buffalo, N. Y.	24% Dairy Feed
" " "	20% Dairy Feed
" " "	Growing Mash, with BM
" " "	Blue Ribbon Growing Mash
" " "	Starting Food, with BM.
" " "	Blue Ribbon Starting Food
" " "	*Calf Meal, with Skim Milk
" " "	Husky Chick Scratch Grain
" " "	*Husky Chick Scratch Grain
" " "	Blue Ribbon Chick Scratch
" " "	*Pigeon Feed
Ralston Purina Co., St. Louis, Mo.	Protena 20% Dairy Feed
" " "	Protena 20% Dairy Feed
" " "	Purina Egg Chowder
" " "	Purina Intermediate Hen Chow
" " "	Purina Omolene Chow
" " "	Purina Pig and Hog Chow
" " "	Purina Calf Chow
" " "	Purina Turkey Startena Chow
" " "	Purina Turkey Growing and Fattening Chow
" " "	Protena Scratch Feed (Buffalo Mill)
M. G. Rankin & Co., Milwaukee, Wis.	Durham Dried Brewers Grains
A. F. Rees, Hanover, Pa.	Meat Scrap
" " "	Pure Tankage

* Means deficient in protein or fat.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Derwood.....	9.56	23.00	**24.83**	2.00	**2.04**	8.50	**8.44**	7.97	47.16	As declared on sack
Union Bridge ...	6.22	41.12	**42.47**	5.00	**7.49**	10.00	**8.06**	7.31	28.45	As declared on sack
Westminster....	6.31	41.12	**42.21**	5.00	**7.53**	10.00	**8.95**	7.29	27.71	" "
Frederick.....	10.06	16.00	**17.20**	4.00	**4.91**	9.50	**8.18**	6.00	53.65	As declared on sack
Clinton.....	9.83	14.00	**15.01**	4.00	**4.63**	12.00	**10.63**	6.50	53.40	As declared on sack
Mt. Lake Park..	6.32	50.00	**53.88**	5.00	**11.95**	3.00	**1.26**	26.36	.23	As declared on sack
Colora	11.06	16.00	**16.76**	4.00	**3.86**	12.00	**8.54**	6.82	52.96	As declared on sack
Colora	8.04	18.00	**21.15**	4.00	**4.69**	8.00	**5.56**	9.47	51.09	" "
Centreville.....	10.45	9.00	**11.48**	2.00	**3.84**	10.00	**6.72**	3.34	64.17	" "
Baltimore.....	6.19	4.00	**7.20**	1.50	**2.23**	30.00	**26.28**	5.97	52.13	" "
Baltimore.....	9.86	12.00	**13.16**	2.00	**2.90**	4.00	**3.56**	2.20	68.32	" "
Baltimore.....	10.56	10.00	**10.97**	2.00	**2.00**	4.00	**1.37**	1.63	73.47	" "
Westminster....	11.31	10.00	**10.97**	2.00	**2.22**	4.00	**1.34**	1.34	72.82	" "
Baltimore.....	10.20	10.00	**11.23**	2.00	**3.55**	4.00	**2.25**	1.65	71.12	" "
Hyattsville	8.77	19.00	**20.33**	5.00	**5.29**	6.00	**5.42**	7.79	52.40	As declared on sack
Baltimore.....	9.54	22.00	**24.30**	5.00	**5.52**	6.50	**5.99**	8.51	46.14	" "
Baltimore.....	8.01	21.00	**23.04**	5.00	**5.16**	6.00	**5.12**	7.77	50.90	" "
Hagerstown.....	11.05	24.00	**23.15**	4.50	**4.55**	10.00	**8.56**	8.45	44.24	As declared on sack
Hagerstown.....	8.47	20.00	**21.59**	5.00	**4.94**	11.00	**11.38**	9.44	44.18	" "
Hagerstown.....	8.09	17.00	**18.69**	4.50	**5.15**	6.50	**6.66**	9.14	52.27	" "
Hagerstown.....	8.81	16.00	**17.99**	4.00	**5.53**	7.00	**6.76**	8.83	52.08	" "
Hagerstown.....	8.67	15.00	**17.02**	4.00	**5.08**	6.00	**5.50**	7.59	56.14	" "
Hagerstown.....	8.41	14.00	**16.67**	4.00	**4.23**	7.00	**7.38**	8.07	55.24	" "
Hagerstown.....	8.38	24.00	**25.80**	5.00	**4.21**	7.00	**5.53**	5.03	51.05	" "
Hagerstown.....	10.97	10.00	**11.93**	2.50	**3.09**	3.50	**2.59**	1.45	69.97	A.
Hagerstown.....	11.37	10.00	**11.93**	2.50	**1.92**	3.50	**1.48**	1.25	72.05	As declared on sack
Hagerstown.....	11.97	10.00	**10.97**	2.50	**2.49**	3.50	**1.31**	1.37	71.89	" "
Hagerstown.....	10.22	12.00	**16.76**	3.00	**2.12**	5.00	**2.83**	1.56	66.51	" "
Ellicott City....	9.06	20.00	**22.54**	3.00	**4.06**	14.00	**9.37**	7.70	47.27	As declared on sack
Taneytown.....	10.00	20.00	**22.40**	3.00	**4.40**	14.00	**9.49**	7.00	46.71	" "
Hyattsville	8.92	19.00	**21.06**	3.50	**4.48**	8.00	**7.87**	10.57	47.10	" "
Hyattsville	12.42	10.00	**10.97**	2.50	**2.81**	4.00	**3.48**	1.59	68.73	" "
Hyattsville	11.39	10.00	**12.23**	3.20	**4.04**	9.00	**6.62**	3.63	62.09	" "
Taneytown.....	10.35	31.00	**31.86**	3.00	**5.14**	10.00	**8.79**	10.59	33.27	" "
Walkersville	10.34	27.00	**27.55**	3.20	**3.64**	4.50	**3.25**	5.77	49.45	" "
Baltimore.....	11.37	18.00	**19.48**	4.00	**5.15**	7.00	**5.88**	7.86	50.26	" "
Baltimore.....	11.36	17.00	**18.55**	2.50	**4.36**	8.00	**6.17**	6.85	52.71	" "
Baltimore.....	11.80	9.50	**10.00**	2.00	**2.85**	4.00	**2.21**	1.45	71.69	" "
Westminster....	7.34	21.00	**28.43**	5.00	**6.17**	17.00	**15.85**	5.38	36.83	As declared on sack
Middleburg.....	6.10	55.00	**55.20**	10.00	**9.60**	3.00	**2.47**	22.30	4.33	As declared on sack
Chewsville.....	5.65	50.00	**50.20**	12.50	**14.72**	2.75	**2.90**	21.66	4.87	" "

A—Also detected oats.

Manufacturer and Address	Name of Feed
Reindollar Co., Taneytown, Md.	Starting and Growing Mash
" " "	Horse Feed
" " "	Scratch Grains
Richards Milling Co., Cortland, Ohio.	20% Dairy Feed
" " "	‡Horse Feed
" " "	‡Soft Winter Wheat Bran
" " "	‡Fancy Winter Wheat Middlings
" " "	Mixed Grains for Poultry
" " "	‡Special Chop
Richardson Bros., Westminster, Md.	Richbro Growing Mash
" " "	Richbro Baby Chick Starter
Daniel Rider, Inc., Baltimore. Md.	Eager Horse Feed
" " "	Winner Horse Feed
Robinson Bros., Cardiff, Md.	Laying Mash
Ronck & Bevis Co., Philadelphia, Pa.	‡Ro-Be Tomato Seeds-Pulp-Skins For Feeding
Rotex Milling Co., Cleveland, Ohio.	‡Starting and Growing Mash
Runge & Co., Baltimore, Md.	‡Malt Sprouts
Ryde & Co., Chicago, Ill.	‡"Startrite" Chick Food, with DBM. and Cod Liver Oil
Wm. Schluderberg-T. J. Kurdle Co., Baltimore, Md.	Esskay Quality Meat Scrap
" " "	Esskay Quality Meat Scrap
" " "	EsskayQuality Meat Scrap
" " "	Esskay Quality Meat Scrap
" " "	Esskay Quality Meat Sdrap
" " "	Esskay Quality Digester Meat Meal
" " "	Esskay Quality Poultry Bone
" " "	Esskay Quality Poultry Bone
Schultz, Baujan & Co., Beardstown, Ill.	Critic 24% Dairy Feed
" " "	Honest 16% Dairy Feed
" " "	Critic Egg Mash
" " "	Critic Starting and Growing Mash
" " "	Corn Feed Meal
" " "	‡Honest Corn and Wheat
" " "	Honest Baby Chick Scratch Feed
" " "	Honest Scratch Feed
Seaboard Products Inc., Baltimore, Md.	55% Meat Scrap
" " "	*50% Meat and Bone Scrap
" " "	50% Meat and Bone Scrap
" " "	50% Meat and Bone Scrap
" " "	50% Meat and Bone Scrap
" " "	50% Meat and Bone Scrap

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Taneytown.....	9.73	16.00	**17.29**	4.50	**5.40**	6.00	**4.17**	7.09	56.32	As declared on sack
Taneytown.....	8.71	8.50	**9.75**	2.25	**2.65**	10.00	**9.03**	4.02	65.84	" "
Taneytown.....	8.89	9.00	**9.56**	2.00	**2.87**	5.00	**2.09**	1.83	74.76	" "
Grantsville.....	11.02	20.00	**22.41**	4.50	**4.54**	10.00	**5.96**	5.92	50.15	A.
Cumberland	9.83	8.00	**10.81**	3.00	**3.40**	10.00	**5.11**	2.58	68.27	B.
Cumberland	8.88	14.00	**17.72**	4.50	**4.57**	10.00	**10.21**	6.12	52.50	C.
Cumberland	9.90	15.00	**17.72**	3.00	**4.84**	10.00	**5.48**	3.20	58.86	As declared on sack
Cumberland	11.36	9.00	**9.21**	2.50	**2.86**	6.00	**2.20**	1.00	73.37	D.
Cumberland	9.36	8.00	**9.04**	3.00	**4.62**	12.00	**8.30**	4.30	64.38	As declared on sack
Westminster....	10.52	16.00	**16.15**	4.50	**4.55**	4.50	**4.18**	7.62	56.98	As declared on sack
Westminster....	10.83	12.50	**14.04**	4.00	**4.31**	3.25	**2.79**	5.13	62.90	" "
Baltimore.....	10.02	7.00	**9.77**	2.00	**2.95**	12.00	**7.21**	2.99	67.06	E.
Baltimore.....	11.78	9.00	**9.99**	2.00	**2.96**	8.00	**6.32**	3.88	65.07	As declared on sack
Cardiff.....	8.67	20.00	**20.18**	4.75	**4.57**	10.00	**8.05**	11.38	47.15	As declared on sack
Hagerstown.....	5.33	20.00	**22.29**	10.50	**12.88**	36.00	**33.23**	2.95	23.32	As declared on sack
Hagerstown.....	9.89	18.00	**18.52**	3.50	**5.15**	7.00	**3.63**	5.74	57.07	As declared on sack
Baltimore.....	8.61	27.00	**27.16**	1.00	**.99**	15.00	**14.64**	7.68	40.92	As declared on sack
Thurmont.....	9.77	14.00	**15.53**	4.00	**4.67**	3.50	**2.42**	5.77	61.84	As declared on sack
Sykesville.....	5.52	50.00	**50.34**	6.00	**9.61**	5.00	**1.67**	31.20	1.66	F.
Mt. Airy.....	5.10	50.00	**49.49**	6.00	**12.28**	5.00	**2.49**	30.20	.44	F.
Hagerstown.....	5.28	45.00	**46.33**	6.00	**13.87**	5.00	**1.84**	30.68	2.00	As declared on sack
Hagerstown.....	6.33	45.00	**45.46**	6.00	**8.83**	5.00	**1.99**	37.10	.29	F.
Taneytown.....	5.30	45.00	**45.19**	6.00	**9.24**	5.00	**1.77**	36.81	1.69	F.
Linwood.....	5.06	46.00	**46.33**	10.00	**11.77**	5.00	**2.33**	32.13	2.38	G.
Baltimore.....	6.04	20.00	**23.52**	2.00	**2.59**	5.00	**.72**	66.70	.43	As declared on sack
Baltimore.....	6.62	20.00	**22.73**	2.00	**2.33**	5.00	**.34**	66.88	1.10	" "
Cumberland	10.10	24.00	**23.79**	4.00	**4.23**	9.00	**6.05**	10.44	45.39	As declared on sack
Cumberland	9.90	16.00	**18.98**	3.50	**3.26**	13.00	**9.24**	10.85	47.77	E.
Cumberland	8.62	20.00	**20.62**	4.00	**5.09**	7.00	**5.87**	9.77	50.03	As declared on sack
Cumberland	8.15	18.00	**18.69**	4.00	**4.72**	6.00	**4.57**	8.81	55.06	E.
Cumberland	10.05	8.00	**9.04**	3.75	**4.03**	5.00	**4.32**	1.58	70.98	As declared on sack
Oakland.....	10.22	10.00	**10.27**	3.00	**2.76**	5.00	**2.00**	1.62	73.13	" "
Cumberland	9.91	10.00	**11.85**	3.00	**4.43**	5.00	**2.02**	2.20	69.59	" "
Cumberland	9.89	10.00	**10.27**	3.00	**3.90**	5.00	**2.41**	1.64	71.89	" "
Baltimore.....	6.96	55.00	**54.06**	6.00	**11.73**	3.00	**1.70**	23.30	2.25	As declared on sack
Baltimore.....	6.79	50.00	**48.97**	6.00	**11.51**	3.00	**1.98**	27.40	3.35	" "
Baltimore.....	6.21	50.00	**49.84**	6.00	**11.66**	3.00	**1.85**	26.00	4.44	" "
Baltimore.....	5.89	50.00	**49.67**	6.00	**14.13**	3.00	**1.59**	24.70	4.02	" "
Chestertown....	6.16	50.00	**49.23**	6.00	**13.20**	3.00	**1.61**	26.60	3.20	" "
Chestertown....	5.07	50.00	**50.20**	6.00	**10.79**	3.00	**2.10**	30.51	1.33	" "

A—Ingredients and fat guarantee on sack differ from license.
B—Ingredients and protein guarantee on sack differ from license.
C—Protein and fat guarantee on sack differ from license.
D—Unable to detect barley.
E—Ingredients on sack differ from license.
F—Should be designated as meat and bone scrap.
G—Should be designated as meat and bone scrap; also detected vegetable fibrous material.

Manufacturer and Address	Name of Feed
Seaboard Products, Inc., Balto., Md. (Cont.)	50% Meat and Bone Scrap
" " "	*50% Meat and Bone Scrap
" " "	45% Meat and Bone Scrap
" " "	Odorless Steamed Bone Meal
" " "	Terrapin Brand Fish Meal
" " "	Terrapin Brand Fish Meal
Security Food Co., Minneapolis, Minn.	*Security Food Compound
W. O. Shank, Emmitsburg, Md.	Pure Wheat Middlings
Shenandoah Milling Co., Inc., Shenandoah, Va.	‡Blue Ridge Feed
	Blue Bird Feed
Sherwin-Williams Co., Cleveland, Ohio.	Pure Old Process Linseed Meal
M. L. Shoemaker & Co., Inc., Phila., Pa.	Swift Sure Ground 55% Beef Scrap
W. G. Slugg, Milwaukee, Wis.	Pure Dried Buttermilk Feed
" " "	Pure Dried Buttermilk Feed
" " "	Pure Dried Buttermilk Feed
G. B. R. Smith Milling Co., Sherman, Tex.	Wheat Bran and Screenings
Harry B. Smith, Baltimore, Md.	Peanut Meal
Soya Products, Inc., Chicago, Ill.	Soybean Oil Meal
" "	Soybean Oil Meal
" "	Soybean Oil Meal
" "	‡Super Soy
Spratt's Patent (Am) Limited, Newark, N. J.	Pheasant Meal
" " "	Pheasant Meal
" " "	‡Chick Meal
A. E. Staley Mfg. Co., Decatur, Ill.	Soybean Oil Meal
John T. Stanley Co., Inc., New York, N. Y.	45% Meat and Bone Scrap
W. E. Stanton, Grantsville, Md.	Corn and Oats Chop
" " "	Corn Chop
Star Food & Remedy Co., Inc., Wash. D. C.	Laying Mash
" " "	Growing Mash
E. Steen & Bro., Baltimore. Md,	Sugar Boy "16" Dairy Feed
" " "	Blue Bird Laying Mash
" " "	Golden Goose All Mash, with BM., Cod Liver Oil and Minerals
" " "	Molasses Horse Feed
" " "	Sugared Grain Blowings
" " "	Golden Goose Brand Fancy Chick Starter, with BM. and Cod Liver Oil

‡ Not licensed at time of sale.
* Means deficient in protein or fat.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Owings Mills....	8.27	50.00	**52.13**	6.00	**12.29**	3.00	**1.87**	24.24	1.20	As declared on sack
Baltimore.....	5.33	50.00	**48.88**	6.00	**11.44**	3.00	**1.90**	30.97	1.48	" "
Baltimore.....	7.02	45.00	**44.90**	6.00	**12.09**	3.00	**1.95**	31.42	2.62	" "
Reisterstown....	3.97	5.00	**8.16**	.01	**.39**	1.00	**2.19**	84.88	.41	" "
Chestertown....	7.95	55.00	**55.02**	6.00	**10.05**	2.00	**.59**	21.09	5.30	" "
Owings Mills....	6.18	55.00	**55.99**	6.00	**6.65**	2.00	**.73**	20.22	10.23	" "
Brunswick.....	9.57	9.80	**19.83**	4.50	**3.84**	6.00	**1.77**	6.25	58.74	As declared on sack
Motters.....	11.12	16.00	**16.15**	4.00	**3.61**	6.00	**3.37**	2.83	62.92	As declared on sack
Hancock.....	9.65	15.00	**16.50**	3.00	**3.89**	9.50	**6.35**	4.58	59.03	As declared on sack
Union Bridge ...	9.73	16.50	**17.02**	4.00	**4.08**	8.00	**5.57**	2.89	60.71	" "
Ellicott City....	8.16	34.00	**39.22**	5.00	**5.65**	10.00	**7.47**	5.54	33.96	As declared on sack
Pocomoke City..	5.54	55.00	**60.81**	6.00	**14.67**	3.00	**2.50**	16.32	.16	As declared on sack
Owings Mills....	.....	30.00	**32.64**	.60	x**1.09**	.....	.....	7.95	.....	A.
Hampstead.....	.....	30.00	**32.82**	.60	x.**58**	.....	.....	8.12	.....	A.
Pocomoke City..	.....	30.00	**33.17**	.60	x**1.48**	.....	.....	8.08	.....	A.
Baltimore.....	9.49	14.50	**17.02**	3.00	**4.33**	10.00	**9.38**	5.82	53.96	As declared on sack
Cardiff.....	7.96	41.00	**41.29**	6.00	**6.45**	15.00	**12.66**	7.36	24.28	As declared on sack
Hagerstown.....	9.79	41.00	**41.94**	5.00	**5.01**	7.00	**5.56**	6.00	31.70	As declared on sack
Walkersville	11.28	41.00	**40.54**	5.00	**5.67**	7.00	**5.66**	6.22	30.63	" "
Forest Hill.....	9.23	41.00	**41.94**	5.00	**5.18**	7.00	**5.28**	6.54	31.83	" "
Manchester.....	11.27	37.00	**37.91**	5.00	**5.29**	6.50	**5.35**	10.08	30.10	" "
Hagerstown.....	7.93	19.00	**23.17**	1.25	**1.12**	2.00	**.82**	2.42	64.55	As declared on sack
Centreville.....	8.05	19.00	**19.48**	1.25	**1.23**	2.00	**.98**	2.08	68.18	" "
Hagerstown.....	6.70	19.00	**25.01**	1.50	**1.92**	2.00	**.89**	3.66	61.82	" "
Chewsville.....	6.01	40.00	**43.63**	4.50	**5.37**	7.00	**6.38**	6.37	32.24	As declared on sack
Cumberland	6.51	45.00	**49.82**	10.00	**10.40**	3.00	**2.50**	28.00	2.77	As declared on sack
Grantsville.....	10.51	10.00	**10.44**	3.00	**4.23**	8.00	**6.61**	2.11	66.10	As declared on sack
Grantsville.....	10.41	9.00	**10.00**	4.00	**4.80**	3.00	**2.01**	1.26	71.52	" "
Riverdale.....	9.77	20.00	**20.10**	4.50	**5.77**	7.00	**6.75**	9.70	47.91	B.
Riverdale.....	10.17	15.00	**18.56**	4.00	**5.11**	7.00	**4.48**	7.08	54.60	C.
Annapolis.....	11.53	16.00	**17.53**	3.00	**3.88**	13.00	**8.00**	7.88	51.18	As declared on sack
Baltimore.....	9.30	18.00	**18.78**	4.00	**5.59**	10.00	**6.64**	9.02	50.67	D.
Baltimore.....	8.30	15.00	**16.94**	4.00	**5.31**	5.00	**5.90**	7.18	56.37	As declared on sack
Baltimore.....	11.40	7.00	**9.03**	1.00	**5.47**	16.00	**6.77**	3.56	63.77	" "
Baltimore.....	12.04	9.00	**9.35**	2.00	**1.83**	20.00	**13.26**	8.04	55.48	" "
Baltimore.....	9.04	14.00	**16.50**	4.00	**5.22**	6.00	**4.77**	9.84	54.63	E.

A—Misbranded, should be dried skim milk instead of dried buttermilk feed.
B—Also detected calcium carbonate and salt.
C—Also detected wheat bran, corn gluten feed, calcium carbonate and salt.
D—Also detected corn gluten.
E—Ingredients on sack differ from license.
x Fat as determined by the Roese-Gottlieb Method.

Manufacturer and Address	Name of Feed
D. A. Stickell & Sons, Inc., Hagerstown, Maryland.	Su-Pur Sweet 32% Mixing Ration
" " "	Zip Sweet 16% Dairy Feed
" " "	‡Poultry Fattener
" " "	‡Su-Pur Broiler Mash
" " "	‡Su-Pur Coccidiosis Flushing Mash
" " "	‡Su-Pur All Mash Starter
" " "	Horse and Mule Feed
" " "	‡*Pure Wheat Flour Middlings
" " "	Blue Ridge Chick Feed
" " "	Victor Chick Feed
F. W. Stock & Sons, Hillsdale, Mich.	*Bran, with M. R. S.
Chas. M. Struven Co., Baltimore, Md.	Fish Meal
Swift & Co., Chicago, Ill.	Fifty-Five Meat Scraps
" " "	Fifty-Five Meat Scraps
" " "	*Meat and Bone Scraps
Taneytown Grain & SupplyCo., Taneyt'n, Md.	Taney Pig and Hog Feed
N. & G. Taylor Co., Cumberland, Md.	Refuse Cleaning Mixture
Tennant & Hoyt Co., Lake City, Minn.	‡Golden Loaf Wheat Middlings, with Ground Screenings N. Ex. M. R.
Theobald Animal By-Products Refinery, Kearney, N. J.	Production Brand Meat and Bone Scrap
	‡Production Brand Meat and Bone Scrap
Jacob Trinley & Sons, Linfield, Pa.	‡Real Laying Mash
" " "	‡Favorite Laying Mash
" " "	‡Real Growing Mash
" " "	Real Fattening Mash, with BM
" " "	‡Real Chick Starter
" " "	Real Intermediate Chick Feed
" " "	‡*Real Chick Feed
" " "	*Real Scratch Grain N. G.
Ubiko Milling Co., Cincinnati, Ohio.	Union Grains 32% Sweet Dairy Ration
" " "	‡Union Grains 16% Sweet Dairy Ration
" " "	All-Mash Developer
" " "	‡Calf Meal
" " "	‡Pig and Hog Ration
" " "	‡Chick Feed
" " "	‡Glendale Scratch Feed
" " "	‡Intermediate Scratch Feed
Universal By-Products Co., San Franscico, California.	"22" Universal Brand Pure Dried Buttermilk
	"22" Universal Brand Pure Dried Skim Milk
Van Iderstine Co., Long Island City, N. Y.	Vico Quality Meat and Bone Scraps for P'ltry.
" " "	Vico Quality Meat and Bone Scraps for P'ltry.
Vitality Mills, Inc., Chicago, Ill.	‡Circle Bee Growing Mash
" " "	Pig Meal
" " "	Circle Bee Chick Starter
Voigt Milling Co., Grand Rapids, Mich.	‡Pure Winter Wheat Bran

* Means deficient in protein or fat.
‡ Not licensed at time of sale.

Sampled From	Moisture	Protein		Fat		Fibre		Ash	Nitrogen Free Extract	Ingredients
		Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND			
Annapolis	7.88	32.00	**32.66**	4.50	**5.79**	10.00	**8.66**	8.79	36.22	As declared on sack
Hagerstown	10.91	16.00	**19.40**	3.00	**3.78**	12.00	**10.98**	9.30	45.63	" "
Buck Lodge	8.98	12.00	**13.25**	4.50	**6.53**	4.00	**3.85**	5.40	61.99	" "
Annapolis	10.42	14.50	**16.23**	3.50	**4.90**	5.00	**2.34**	8.27	57.84	" "
Annapolis	9.20	14.00	**18.95**	3.00	**3.60**	5.00	**2.46**	9.00	56.79	" "
Silver Spring	9.53	16.50	**16.85**	4.00	**5.05**	5.00	**3.48**	8.68	56.41	" "
Hagerstown	11.53	9.00	**9.81**	2.50	**2.71**	12.00	**6.35**	3.21	66.39	" "
Silver Spring	10.41	16.00	**16.85**	6.00	**5.04**	4.00	**6.23**	4.50	56.97	" "
Hagerstown	10.80	10.00	**11.76**	2.50	**4.74**	5.00	**1.46**	2.66	68.58	" "
Baltimore	11.82	10.00	**11.14**	2.50	**4.32**	5.00	**1.74**	1.92	69.06	" "
Derwood	9.42	17.00	**18.69**	4.00	**3.13**	10.00	**7.54**	7.41	53.81	As declared on sack
Detour	10.70	55.00	**57.39**	4.00	**10.97**	2.00	**.48**	20.31	.15	As declared on sack
Westminster	5.51	55.00	**55.99**	6.00	**11.57**	3.00	**2.40**	24.10	.43	As declared on sack
Westminster	6.57	55.00	**55.46**	6.00	**13.53**	3.00	**1.40**	19.95	3.09	A.
Baltimore	5.87	50.00	**53.09**	6.00	**12.38**	3.00	**2.55**	23.21	2.90	A.
Taneytown	10.46	16.50	**21.07**	4.25	**4.83**	6.75	**7.12**	6.29	50.23	As declared on sack
Cumberland	6.71	14.00	**16.50**	5.50	**11.70**	10.00	**6.75**	4.73	53.61	As declared on sack
Baltimore	9.32	17.00	**19.31**	5.00	**6.35**	8.00	**6.81**	5.00	53.21	As declared on sack
Hagerstown	5.87	50.00	**51.42**	5.00	**11.69**	3.00	**3.12**	23.18	4.72	As declared on sack
Easton	6.05	50.00	**55.81**	5.00	**10.22**	3.00	**3.37**	23.34	1.21	" "
Baltimore	8.20	20.00	**21.41**	4.00	**5.54**	8.00	**6.66**	9.71	48.48	As declared on sack
Baltimore	9.49	18.00	**18.28**	3.00	**5.66**	8.00	**6.84**	7.98	51.75	B.
Baltimore	10.63	17.00	**18.43**	4.00	**5.17**	10.00	**7.50**	8.60	49.67	As declared on sack
Baltimore	10.06	14.00	**16.76**	4.50	**5.13**	6.00	**4.59**	4.73	58.73	C.
Baltimore	8.44	16.00	**17.64**	4.00	**5.19**	7.00	**4.20**	8.18	56.35	As declared on sack
Baltimore	9.82	10.00	**11.14**	3.00	**4.33**	4.00	**7.46**	1.60	65.65	" "
Baltimore	10.50	10.00	**11.41**	4.00	**3.20**	4.00	**1.65**	1.66	71.58	" "
Baltimore	10.28	10.00	**11.58**	3.00	**2.38**	4.00	**2.61**	1.86	71.29	" "
Gaithersburg	7.99	32.00	**31.76**	4.00	**5.68**	10.00	**7.31**	8.86	38.40	As declared on sack
Gaithersburg	8.50	16.00	**17.49**	3.00	**3.63**	12.00	**8.95**	12.69	48.74	" "
Gaithersburg	8.95	14.00	**15.36**	4.00	**4.66**	5.00	**4.51**	8.70	57.82	" "
Gaithersburg	9.55	28.00	**27.38**	3.00	**3.69**	3.00	**2.93**	7.46	48.99	" "
Gaithersburg	7.81	25.00	**25.18**	4.50	**5.84**	7.00	**6.67**	11.00	43.50	" "
Gaithersburg	10.45	9.00	**11.41**	2.50	**2.75**	5.00	**1.58**	1.70	72.11	" "
Gaithersburg	11.09	9.00	**10.09**	2.50	**3.38**	5.00	**2.41**	1.68	71.35	D.
Gaithersburg	11.33	9.00	**10.44**	2.50	**2.75**	5.00	**2.23**	1.36	71.89	As declared on sack
Baltimore	.....	32.00	**32.47**	5.00	x**7.56**	.....	.....	7.51	.....	As declared on sack
Pocomoke City	.....	32.00	**36.42**	.90	x**1.74**	.....	.....	7.87	.....	" "
Westminster	5.38	50.00	**50.72**	5.00	**10.39**	3.00	**2.89**	28.35	2.27	As declared on sack
Frederick	6.07	50.00	**53.79**	5.00	**9.91**	3.00	**3.07**	25.66	1.50	" "
Hancock	11.44	15.00	**17.10**	4.00	**4.85**	7.00	**4.97**	9.43	52.21	As declared on sack
Hancock	11.85	18.00	**18.93**	3.50	**4.87**	7.00	**4.67**	8.32	51.36	" "
Hancock	10.20	14.50	**16.05**	4.00	**4.21**	5.00	**3.67**	8.74	57.13	E.
Maple Grove	8.46	14.00	**15.18**	3.00	**3.73**	10.00	**9.22**	5.74	57.67	F.

A—Also detected an excessive amount of hair. x Fat as determined by the Roese-Gottlieb Method.
B—Ingredients, fat and fibre guarantees on sack differ from license.
C—Ingredients on sack differ from license. D—Unable to detect barley and oats.
E—Also detected whole weed seed and weed seed coats, oat hulls, chaff, and a small amount of oat berry and a trace of alfalfa. F—Also detected screenings.

MANUFACTURER AND ADDRESS	NAME OF FEED
Ward Dry Milk Co., St. Paul, Minn.	Pure Dried Skim Milk
Warwick Co., Massillon, Ohio.	Pure Wheat Bran
" " "	‡Pure Wheat Bran
" " "	Pure Wheat Middlings
" " "	‡Pure Wheat Middlings
Wheeler Supply Co., Glyndon, Md.	Glyco Growing Mash
" " "	Glyco Starter
M. F. Wiley, Detour, Md.	Pure Wheat Bran
Wilkins-Rogers Milling Co., Inc., Washington, D. C.	Washington Pure Wheat Bran
	Washington Baby Chick Feed
York Roller Mills Co., York, Pa.	Wheat Mid., with Gr. Wheat Screen. N. Ex. M. R.
Austin Dog Bread & Animal Food Co., Chelsea, Mass.	Puppy Biscuit
" " "	Bread Flakes
	Dog Biscuit
Battle Creek Dog Food Co., Battle Creek, Mich.	*Miller's Kibbles
M. J. Conner Co., Battle Creek, Mich.	‡Ready-to-Feed Cooked Dog Food
Derwood Mill, Derwood, Md.	Dog Feed
Dietrich & Gambrill, Inc., Frederick, Md.	*Dog Biscuits
Gaines Food Co., Sherburne, N. Y.	‡Meat and Milk Meal, Cooked
Kennel Food Supply Co., Fairfield, Conn.	Biscuits
" " "	Cero-Meato
National Biscuit Co., New York, N. Y.	Junior Milk-Bone
" " "	Milk-Bone Crumbs
" " "	Bennett's Milk-Bone Dog Food
Nowak Milling Corp., Hammond, Ind.	‡Domino Dog-ets
Perfection Foods Co., Battle Creek, Mich.	†Meat-Cereal
Polk Miller Products Corp., Richmond, Va.	*Sergeants Dog Food
Spratt's Patent (AM) Ltd., Newark, N. J.	Fibo
" " "	Meat-Fibrine Ovals
" " "	Dog Cakes

* Means deficient in protein or fat.
† Means deficient in both protein and fat.
‡ Not licensed at time of sale.

MANUFACTURER AND ADDRESS	NAME OF FEED
Ronck & Bevis Co., Philadelphia, Pa.	Ro-Be Feeding Mineral

Sampled From	Moisture	Protein Guaranteed	Protein FOUND	Fat Guaranteed	Fat FOUND	Fibre Guaranteed	Fibre FOUND	Ash	Nitrogen Free Extract	Ingredients
Woodbine	.....	32.00	**31.94**	1.00	x**1.04**	.....	.....	8.80	.....	As declared on sack
Hagerstown	11.63	14.00	**16.15**	2.75	**3.94**	10.00	**8.45**	6.25	53.58	As declared on sack
Hagerstown	11.32	14.00	**15.09**	2.75	**3.91**	10.00	**9.24**	6.23	54.21	" "
Hagerstown	11.87	15.00	**15.36**	4.00	**4.05**	9.00	**4.30**	3.36	61.06	A.
Hagerstown	11.86	15.00	**15.09**	4.00	**4.32**	9.00	**4.03**	3.33	61.37	A.
Glyndon	8.03	16.00	**18.87**	3.50	**5.66**	7.50	**8.08**	5.95	53.41	B.
Glyndon	8.11	18.50	**19.39**	5.50	**5.48**	7.00	**7.33**	5.91	53.78	C.
Detour	10.32	15.00	**16.23**	3.00	**3.70**	9.00	**9.81**	5.67	54.27	As declared on sack
Hyattsville	9.42	14.00	**18.60**	4.00	**4.06**	9.00	**8.96**	5.93	53.03	As declared on sack
Up'r Marlboro	10.54	10.00	**10.71**	2.50	**5.16**	3.00	**2.59**	2.55	68.45	" "
Taneytown	10.85	14.50	**16.85**	4.00	**4.02**	5.10	**4.94**	3.34	60.00	As declared on sack
Baltimore	7.23	18.00	**21.15**	1.00	**1.69**	2.00	**.92**	4.09	64.92	As declared on pack.
Baltimore	6.56	16.00	**18.95**	1.00	**1.46**	2.00	**.73**	3.27	69.03	" "
Baltimore	7.98	18.00	**19.92**	1.00	**1.28**	2.00	**.88**	3.43	66.51	" "
Baltimore	8.71	13.00	**19.39**	1.70	**1.08**	1.30	**.71**	3.60	66.51	As declared on pack.
Frostburg	5.88	17.30	**12.20**	2.70	**1.48**	3.38	**.94**	7.30	72.20	As declared on pack.
Derwood	9.27	21.00	**22.38**	4.00	**4.13**	4.00	**3.73**	9.65	50.84	As declared on pack.
Baltimore	7.65	18.00	**23.69**	2.50	**1.68**	2.00	**1.98**	8.42	56.58	As declared on pack.
Hagerstown	7.43	23.00	**22.68**	3.00	**3.40**	4.00	**2.68**	11.45	52.36	As declared on pack.
Baltimore	7.84	18.00	**23.34**	2.00	**2.88**	4.50	**3.02**	3.35	59.57	As declared on pack.
Baltimore	8.20	18.00	**20.45**	1.00	**2.02**	4.00	**2.06**	8.04	59.23	" "
Baltimore	8.76	17.00	**17.11**	1.00	**1.76**	2.50	**2.19**	4.31	65.87	As declared on pack.
Baltimore	8.47	17.00	**17.38**	1.00	**1.32**	2.50	**1.18**	3.51	68.14	" "
Baltimore	8.67	17.00	**17.02**	1.00	**1.11**	2.50	**1.16**	3.53	68.51	" "
Baltimore	7.42	21.00	**29.71**	4.00	**6.08**	3.00	**1.47**	7.59	47.73	As declared on pack.
Baltimore	6.05	15.00	**18.60**	1.00	**2.51**	5.00	**2.50**	4.15	66.19	As declared on pack.
Baltimore	8.11	21.44	**27.91**	2.74	**2.11**	1.50	**1.09**	5.21	55.57	As declared on pack.
Baltimore	7.71	19.00	**23.87**	1.75	**1.76**	2.00	**1.13**	2.67	62.86	D. As decl'd on pack.
Baltimore	7.81	19.00	**21.59**	1.75	**1.30**	2.00	**.78**	2.17	66.35	D. " "
Hagerstown	7.21	19.00	**21.94**	1.25	**1.43**	2.00	**1.14**	2.52	65.76	As declared on pack.

A—Also detected screenings.
B—Fat and fibre guarantees on sack differ from license; unable to detect wheat bran.
C—Protein, fat and fibre guarantees on sack differ from license.
D—Fat guarantee on sack differs from license. x Fat as determined by the Roese-Gottlieb Method.

Sampled From	Calcium Oxide Guarantee	Calcium Oxide FOUND	Phosphorus P_2O_5 Guaranteed	Phosphorus P_2O_5 FOUND	Salt Guaranteed	Salt FOUND	Iodine Guaranteed	Iodine FOUND
Germantown	45.00	**46.03**	15.00	**17.50**	9.00	**7.09**	.0005	**.0007**

RESULTS OF TESTS ON PRODUCTS SOLD AS VITAMIN D CARRIERS

Name and Manufacturer of Products Tested	Average % Ash on Basal Ration Alone	Basal Ration Supplemented With Various Products					
		Percentage Added	Ash Content	Percentage Added	Ash Content	Percentage Added	Ash Content
Pratt's Cod Liver Oil, Not U. S. P., Pratt Food Company, Philadelphia, Pa.	34.3	1/8%	45.8	1/4%	48.1	1/2%	47.9
Nopco Cod Liver Oil, Fortified in Vitamin D Potency, National Oil Products Co., Harrison, N. J.	34.3	1/8%	46.5	1/4%	46.9	1/2%	47.1
Cod Liver Oil, Consumers' Import Co., Inc., New York City, N. Y.	34.3	1/8%	44.8	1/4%	46.4	1/2%	47.5
Super X Cod Liver Oil, Ezl. Dunwoody Company, Philadelphia, Pa.	34.3	1/8%	43.8	1/4%	47.3	1/2%	47.3
Certified Cod Liver Oil, Not U. S. P., Silmo Chemical Company, Vineland, N. J.	34.3	1/8%	45.8	1/4%	47.2	1/2%	49.5
Vitamin Brand Pure Norwegian Cod Liver Oil, C. L. Huisking & Company, New York City	34.3	1/8%	41.6	1/4%	47.4	1/2%	46.4
Clo Trate Concentrated Cod Liver Oil, Health Products Corporation, Newark, N. J.	34.3	1/8%	44.0	1/4%	47.4	1/2%	47.9
Cod Liver Oil, Not U. S. P., National Oil Products Company, Harrison, New Jersey.	34.3	1/8%	46.2	1/4%	48.6	1/2%	47.4
Co-Liv-Ol, Silmo Chemical Company, Vineland, N. J.	34.3	1/2%	36.3	1%	36.3	3%	44.3
Cod Liver Meal, Silmo Chemical Company, Vineland, N. J.	34.3	1/2%	36.8	1%	37.7	3%	47.5
Munn's Cod Liver Oil Cake Meal, W. A. Munn, St. Johns, Newfoundland	34.3	1/2%	34.3	1%	36.9	3%	45.1

(1) The ricket-producing ration consisted of a mixture of 59 parts ground yellow corn, 25 parts wheat flour middlings, 12 parts crude casein, 1 part sodium chloride, 1 part precipitated calcium carbonate, 1 part precipitated calcium phosphate and 1 part dried yeast.

LIME ANALYSES

A detailed report of the results obtained in the inspection and analysis of agricultural liming materials from July 1, 1932, to November 1, 1932, is contained in pages 54 and 55.

(1) The ricket-producing ration consisted of a mixture of 59 parts ground yellow corn, 25 parts wheat flour middlings, 12 parts crude casein, 1 part sodium chloride, 1 part precipitated calcium carbonate, 1 part precipitated calcium phosphate and 1 part dried yeast.

ANALYSES OF AGRICULTURAL BURNT LIME (OXIDES)

No.	Name of Manufacturer	Name of Lime	Place of Sampling	Calcium Oxide CaO		Magnesium Oxide MgO		Sand & Insol. (No Val.)	Total Oxides CaO+MgO
				Guaranteed	Found	Guaranteed	Found	Found	
2782	Cavetown Planing Mill Co., Cavetown, Md.	Lump Lime	Cavetown	80.00	**71.90**	2.00	**23.07**	**.53**	**94.97**
2783	Cavetown Planing Mill Co., Cavetown, Md.	Ground Burned Lime	Cavetown	80.00	**72.13**	2.00	**20.13**	**1.91**	**92.26**
2785	M. J. Grove Lime Co., Inc., Lime Kiln, Md.	Famous Frederick County Agricultural Lime	Frederick	86.00	**79.74**	4.00	**15.89**	**.33**	**95.63**
2784	M. J. Grove Lime Co., Inc., Lime Kiln, Md.	Famous Frederick County. Ground Lime	Frederick	75.00	**74.48**	5.00	**7.22**	**4.25**	**81.70**
2798	John S. Hyde, Westminster, Md.	Agricultural Lump Lime	Westminster	85.00	**88.59**	5.00	**3.12**	**4.43**	**91.71**
2789	Shank & Etzler Lime Co., Frederick, Md.	Agricultural Lump Lime	Frederick	60.00	**61.26**	30.00	**37.56**	**.24**	**98.82**
2797	Stoner & Powell, Woodsboro, Md.	Old Reliable Fountain Rock Lump Lime	Woodsboro	85.00	**86.80**	2.00	**6.15**	**1.86**	**92.95**
*2796	Stoner & Powell, Woodsboro, Md.	Old Reliable Fountain Rock Ground Lime	Woodsboro	75.00	**60.48**	8.00	**9.99**	**9.74**	**70.47**

ANALYSES OF AGRICULTURAL HYDRATED LIME

2799	S. W. Barrick & Sons, Inc., Woodsboro, Md.	Hydrated Lime	Woodsboro	60.00	**63.39**	5.00	**4.88**	**3.93**	**68.27**
2786	M. J. Grove Lime Co., Inc., Lime Kiln, Md.	Famous Frederick County Hydrated Lime	Frederick	65.00	**61.60**	5.00	**7.68**	**3.80**	**69.28**
2800	LeGore Lime Co., LeGore, Md.	Hydrated Lime	LeGore	60.00	**63.73**	5.00	**4.86**	**3.89**	**68.59**
2788	Shank & Etzler Lime Co., Frederick, Md.	Hydrated Lime	Frederick	45.00	**49.28**	20.00	**27.51**	**1.83**	**76.79**
2803	H. M. Spahr Lime & Stone Co., Thurm't, Md.	Calimag Hydrated Lime	Thurmont	45.00	**41.77**	20.00	**29.19**	**5.35**	**70.96**
2804	Steacy & Wilton Co., Wrightsville, Pa.	"Sterling" Br. Hydr'd Lime	Taneytown	67.00	**69.21**	5.00	**3.41**	**.38**	**72.62**
2802	Stoner & Powell, Woodsboro, Md.	Old Reliable Fountain Rock Hydrated Lime	Woodsboro	60.00	**58.57**	5.00	**5.72**	**5.13**	**64.29**
2791	Washington Building Lime Co., Balto., Md.	Standard Hydrated Lime	Gaithersburg	70.00	**73.47**	2.00	**1.11**	**.81**	**74.58**
2792	Washington Building Lime Co., Baltimore, Md.	Standard Hydrated Lime	Rockville	70.00	**72.69**	2.00	**1.33**	**.78**	**74.02**
2790	I. M. Wertz, Hagerstown, Md.	Lime	Downsville	60.00	**61.49**	5.00	**4.78**	**19.36**	**66.27**

* Indicates product deficient in total oxides.

2790	I. M. Wertz, Hagerstown, Md.	Lime	Downsville	60.00	**61.49**	5.00	**4.78**	**19.36**	**66.27**

* Indicates product deficient in total oxides.

ANALYSES OF AGRICULTURAL LIMESTONE, MARL, AND OYSTER SHELLS

2765	Herbert Bryant's Son, Alexandria, Va.	†Pulv. Oyster Shell Lime	Crisfield	45.00	**47.26**	....	**.79**	**8.25**	**48.05**
2787	M. J. Grove Lime Co., Inc., Lime Kiln, Md.	†Pulverized Limestone	Frederick	50.00	**53.53**	....	**1.16**	**2.50**	**54.69**
*2764	Potomac Poultry Food Co., Inc., Balto., Md.	†Potolime Oyster Shell Lime	Crisfield	46.00	**44.46**	.50	**.72**	**13.34**	**45.18**

ANALYSES OF MISCELLANEOUS PRODUCTS

2801	Stoner & Powell, Woodsboro, Md.	Old Reliable Fountain Rock 50-50	Woodsboro	55.00	**58.24**	3.00	**6.82**	**5.99**	**65.06**

TABLE II—SHOWING MECHANICAL ANALYSIS OF GROUND LIMESTONE AND GROUND OYSTER SHELLS.

For the chemical analyses of these samples, see preceding table. Figures are percentages or pounds per hundred. "Mesh" indicates the sieve used: "20 Mesh" has 20 wires to the inch.

No.	Name of Manufacturer	Name of Lime or Kind	Finer than 100 Mesh	Between 80 & 100 Mesh	Between 60 & 80 Mesh	Between 40 & 60 Mesh	Between 20 & 40 Mesh	Coarser than 20 Mesh
2765	Herbert Bryant's Son, Alexandria, Va.	Pulverized Oyster Shell Lime	60	5	3	8	19	5
2787	M. J. Grove Lime Co., Inc., Lime Kiln, Md.	Pulverized Limestone	88.50	7.50	1	2.50	.50	0
2764	Potomac Poultry Food Co., Inc., Balto., Md.	Potolime Oyster Shell Lime	33	11	3	12	31	10

* Indicates product deficient in total oxides.